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Canisius College
Buffalo, N. Y.




Annual Catalogue
Fifty-second Year
1921-1922

FIFTY-SECOND
ANNUAL CATALOGUE
of
CANISIUS COLLEGE



BUFFALO, NEW YORK
1921-1922



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Canisius College

This institution, conducted by the Fathers of the Society of Jesus, was opened in September, 1870, and incorporated on January 11th, 1883, by the Regents of the University of the State of New York, under the corporate title of

"THE CANISIUS COLLEGE OF BUFFALO, N. Y.,"

and empowered to confer degrees and academic honors. On October 25th, 1906, the charter of the College was amended so as to include the High School or Academic department.

Canisius College is accredited by the Association of Colleges and Preparatory Schools of the Middle States and Maryland.

BOARD OF TRUSTEES

REV. MICHAEL J. AHERN, S. J., President.

REV. JOHN J. BERNARD, S. J., Treasurer.

REV. FREDERICK J. BUNSE, S. J., Secretary.

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REV. MILES J. O'MAILIA, S. J.

REV. FRANCIS X. SINDELE, S. J.

Faculty

REV. M. J. AHERN, S. J.....	<i>President. Professor of Astronomy and Geology</i>
REV. MILES J. O'MAILIA, S. J.....	<i>Dean of the College and Professor of Philosophy</i>
REV. JAMES F. LEARY, S. J.....	<i>Treasurer</i>
REV. OWEN S. MURPHY, S. J.....	<i>Prefect of Discipline and Lecturer in Evidences</i>
REV. DAVID C. CRONIN, S. J.....	<i>Journalism and English</i>
REV. WALTER F. CUNNINGHAM, S. J.....	<i>Professor of Philosophy</i>
REV. EDWARD T. FARRELL, S. J.....	<i>Professor of Philosophy</i>
REV. HENRY A. MCGARVEY, S. J...	<i>Latin and English in Freshman Class</i>
REV. PETER J. SCHWEITZER, S. J...	<i>History and History of Philosophy</i>
REV. FRANCIS X. SINDELE, S. J.....	<i>English and Classics in Sophomore Class</i>
JOSEPH F. BUSAM, S. J.....	<i>Biology</i>
ALOYSIUS J. KELSCH, S. J..	<i>Latin, Greek and English in Freshman Class</i>
EMERAN J. KOLKMEYER, S. J.....	<i>Physics</i>
EMIL A. FREY, B. S.....	<i>German</i>
LOUIS A. PINGITORE, B. A.....	<i>French</i>
MANUEL RIVERA	<i>Spanish</i>
EDWARD J. RAHILL, Ch. E.....	<i>Mathematics</i>
JOHN L. STAMP, B. S.....	<i>Public Speaking</i>
JOHN J. QUINN, B. A.....	<i>Chemistry</i>
D. W. WILSON, A. M.....	<i>Chemistry</i>
NELSON MERCER, M. S.....	<i>Instructor in Chemistry</i>
LEO A. SWEENEY, M. S.....	<i>Instructor in Chemistry</i>
MIGUEL R. RODRIGUEZ, M. S.....	<i>Mechanical Drawing</i>
AUSTIN McTIGUE, M. S.....	<i>Instructor in Physics</i>
NICHOLAS J. SCHMITT, M. S.....	<i>Instructor in Physics</i>
HAROLD J. GRAF	<i>Student Assistant in Chemistry</i>
WILLIAM R. SHERIDAN	<i>Student Assistant in Chemistry</i>
RUDOLPH G. BUCHHEIT	<i>Student Assistant in Biology</i>
CHESTER J. NADOLNY.....	<i>Student Assistant in Biology</i>
EUGENE M. SULLIVAN	<i>Student Assistant in Biology</i>
DANIEL T. BAGEN	<i>Registrar</i>

Faculty

SUMMER COURSES, 1921

REV. FREDERICK J. BUNSE, S. J.	Latin and Greek
REV. HERMAN J. MAECKEL, S. J.	Educational Psychology
REV. GEORGE HOGAN, S. J.	Latin
REV. WILLIAM F. JORDAN, S. J.	Political Economy
REV. JOHN P. KENNEDY	Logic
DR. HENRY A. LAPPIN, B. A., Litt. D.	English
JOHN A. CURTIN, M. A.	Biology
MISS ELIZABETH F. FISHER, B. S.
.....	Physiography and Conservation of Natural Resources
RICHARD C. PHELAN, M. A.	Mathematics
EUGENE S. FEELEY, M. A.	Latin
VICTOR J. KLESS, M. A.	Mathematics
WILLIAM H. DAVENPORT	English
EDGAR BOWMAN	Music
WILLIAM F. MACK, M. A.	History and Civics
JOSEPH E. KELLY, M. A.	English
JAMES H. CROWDLE, M. S.	Chemistry
JOSEPH MULDOON, M. S.	Chemistry
CARL STURMER, M. S.	Chemistry
LOUIS F. McLEAN, M. S.	Chemistry
EUGENE L. KLOCKE, M. A.	Physics
JOHN L. NEUBERT, B. S.	Physics
HENRY A. DAWSON, B. A.	Latin
JEROME A. SCHERER, M. A.	Latin

(Besides 12 members of the College Staff)

ADDITIONAL INSTRUCTORS

COLLEGE COURSES FOR TEACHERS

REV. FREDERICK J. BUNSE, S. J.	Latin
MISS ADA RUTH BURNS	Social Science
JOSEPH E. BRIGHT, B. S.	Modern Banking
HOMER BROWNING, A. B.	Investments
GEORGE W. WANAMAKER, M. A., LL. B.	Business Law
JOHN E. MULLIN	English and Latin
MICHAEL B. McNULTY, M. A.	English and Accounting
DR. MICHELE CABONI	Italian
JEROME A. SCHERER, M. A.	Mathematics
C. F. PLUMMER	Accounting
WILLIAM H. DAVENPORT	Spanish
VICTOR J. KLESS, M. A.	Mathematics
EDWIN J. GERSTMAN, B. S.	Life Insurance
CHARLES A. ROESCH	Filing

(Besides 13 members of the College Staff)

Calendar

1921

Entrance and Conditions Examinations..Tuesday-Friday, September 13-16
RegistrationTuesday-Friday, September 13-16
Instruction beginsMonday, September 19
College Courses for Teachers begin.....Monday, October 3
Annual RetreatWednesday-Friday, October 26-28
Retreat holidaySaturday, October 29
All Saints' DayTuesday, November 1
Election DayTuesday, November 8
Marks for October-November close.....Thursday, November 10
Thanksgiving Holidays...Thursday, Friday, Saturday, November 24-26
Marks for November-December close.....Thursday, December 22
Christmas recess beginsFriday, December 23

1922

Classes resumed. Repetitions begin.....Tuesday, January 3
Preliminary contest in oratory announced.....Tuesday, January 3
Subjects for prize essays announced.....Tuesday, January 3
Mid-year examinationsJanuary 26-31
Mid-year holidayTuesday, January 31
Second Term beginsWednesday, February 1
Commemoration of Washington's Birthday...Wednesday, February 22
Public Oratorical contestFriday, February 24
Marks for February closeSaturday, March 11
Debate for Canisius Alumni Sodality Medal.....Tuesday, March 21
Easter recess begins at 9 A. M.....Wednesday, April 13
Classes resumedWednesday, April 19
Marks for March-April closeSaturday, May 6
Ascension. Holy DayThursday, May 25
Reception. League of the Sacred Heart.....Friday, June 2
College Courses for Teachers close.....Saturday, June 3
Retreat to SeniorsWednesday-Friday, June 14-16
Baccalaureate Sermon in St. Michael's Church.....Sunday, June 18
Annual CommencementMonday, June 19
Summer Session opensWednesday, July 5
Summer Session closesFriday, August 11
Entrance and Conditions Examinations..Tuesday-Friday, September 12-15
RegistrationTuesday-Friday, September 12-15
Instruction beginsMonday, September 18

General Statement

HISTORICAL

Canisius College was opened in September, 1870, by the Fathers of the Society of Jesus.

On April 27, 1872, the feast of Bl. Peter Canisius, patron of the new institution, the cornerstone of a larger brick building on Washington Street was laid by the Rt. Rev. Bishop Stephen V. Ryan, D. D., and in November of the same year the central portion of it was completed; the north and south wings, with the Chapel and Hall and the Infirmary, were added in later years.

In the year 1908 an important change occurred, in the discontinuance of the boarding department.

In 1911 began the erection of the present college building, on the former Villa ground, at the corner of Main and Jefferson Streets. This structure was dedicated, with appropriate ceremonies, by the Rt. Rev. Charles H. Colton, Bishop of Buffalo, on December 30th, 1912. On January 6th, 1913, the four College classes were transferred to the new building, leaving the students of the four High School years at the former location on Washington Street. This local separation of the College from the High School has resulted in marked benefit to both.

As yet only the central portion of the main building has been erected. But its noble proportions and stately dome make it already one of the chief ornaments of the city. The structure is of re-enforced concrete, absolutely fireproof, and provided with exceptionally perfect scholastic and scientific equipment. The two wings of the main building, together with a separate science building and a gymnasium, will be erected in the near future with the funds secured through the successful campaign for \$1,000,000 which was completed in October, 1920.

The educational system followed is substantially that of all the Colleges conducted by the Society of Jesus in every part of the world. Based on the famous Ratio Studiorum Societatis Jesu, a system outlined by the most prominent Jesuit educators in 1599, revised in 1832, and attended up to the present day with unflinching success, it secures on the one hand that stability so essential to educational thoroughness, while on the other it is elastic and makes liberal allowance for the varying circumstances of time and country.

While retaining, as far as possible, all that is valuable in the older learning, it adopts and incorporates the results of modern progress.

But its methods of teaching, being truly psychological, based upon the very nature of man's mental processes and perfected by centuries of experience, are applicable to all times and to every place. It is a noteworthy fact that many of the recently devised methods of teaching are in reality mere revivals of devices recommended long ago in the *Ratio Studiorum*.

Those who are desirous of making either a scientific or historical study of this system will find abundant sources of information in the following works: *Monumenta Germaniae Pedagogica*, Vols. II, V, IX, XVI; *Un Collège Jésuites*, per C. De Rochemonteix, S. J. For a shorter, yet thorough commentary on the *Ratio Studiorum*, the reader is referred to *Jesuit Education*, by Rev. Robert Swickerath, S. J.

BUILDINGS AND GROUNDS

The new building in which Canisius College has been housed since January, 1913, is extremely perfect in respect to light, ventilation and hygiene. Being of re-enforced concrete construction, with trimmings of Vermont and Tennessee marble, it is considered entirely fireproof.

The building still lacks the two capacious wings necessary for its completion. While the class room accommodations and the laboratories are sufficient, though barely so, for present requirements, great need is felt of an assembly hall for academic gatherings, lectures and dramatic entertainments, of a chapel, a library and a gymnasium. The rooms in which these most important departments are temporarily established are entirely inadequate.

The athletic field adjoining the College comprises some eight acres and is well graded.

EQUIPMENT

Libraries.—The Faculty Library comprises about ten thousand volumes. Although this number is small, the careful selection of the works renders the collection very useful for the purpose of the professors.

The Students' Library also comprises about four thousand books. The leading periodicals are supplied to the Reading Room.

A special Scientific Reference Library of over two thousand volumes and a large number of periodicals relating to branches of Natural Science are at the command of students in these fields.

If the books of the High School are included, the College possesses in all some fifty thousand volumes, exclusive of pamphlets.

Science Departments.—The equipment of each department, Chemistry, Physics, Biology, consists of an amphitheatre, capable of seating comfortably eighty students, a private laboratory for the instructors and advanced students, and large, well-lighted students' laboratories.

A large supply of chemical apparatus of recent type affords facilities for experiments and systematic work in all the departments of general, analytical, organic and industrial chemistry.

The stock of instruments is abundantly sufficient for all the courses offered in physics, and is being constantly added to. The Bischoff collection of lantern-slides, numbering nine thousand and covering most natural science subjects, as well as subjects of history, travel, etc., is kept in the instrument room. One thousand lantern-slides, constituting ten lectures on strictly technical subjects, have recently been added to the Bischoff collection.

Astronomy.—For Astronomy, the College possesses an excellent 3½-inch equatorial, and a collection of 500 lantern-slides.

The Seismological Observatory.—The Seismological observatory is situated in a vault in the basement. It is provided with an eighty kilogram Weichert horizontal pendulum (astatic). The instrument, encased in an air-proof chamber, rests upon a solid concrete base which extends to solid rock twenty feet below the level of the street. The concrete pier is surrounded by water on the surface of which floats oil. The arrangement prevents slight surface shocks from being recorded. The location of the seismograph is extremely favorable for the observation of earthquakes and earth tremors and the instrument has shown remarkable sensitivity. During the year many earthquakes, some of extreme severity, were recorded. Since the installation of the instrument disturbances as far east as Smyrna, a distance of approximately 10,000 miles, have been noted. Since the first of January, 1915, the Canisius Seismological Observatory has become one of two hundred stations co-oper-

ating with the United States Weather Bureau, Department of Seismology. Upon the invitation of the Chief, Professor C. F. Marvin, monthly reports are sent to Washington and printed in the "Monthly Weather Review."

Scientific Collections.—The College possesses the following valuable collections:

Collections of fossils, rocks, ores and other minerals, for the study of geology; the Ashton collection of shells and corals.

Collections of reptiles, insects and birds; over one thousand specimens of the flora of New York State.

The Ottomar Reinecke collection of Coleoptera.

In addition there are collections of Indian relics, Japanese curios, coins and stamps. Bibles and manuscripts. This last named collection includes a copy of the famous Kolberger Bible in German, published in 1483, the year of Luther's birth; the great Antwerp Polyglot Bible in six versions, a German Bible of 1543, translated by Peter Jordin, and another of 1536 by Dr. Johannes Eck, with other editions of the Scriptures in western and oriental languages and many early and curious printed works, maps, etc.

Income, Needs of the College, Acknowledgements

The endowment of the College in buildings, educational apparatus and general equipment is of great value. A small productive fund also exists, consisting of foundations made from time to time for scholarships. This, however, is as yet comparatively trifling in amount. The ordinary source of income is the fees of the students. A debt of very considerable proportions has been incurred by the erection of the new and splendid College building. The existence and work of the institution would be precarious or impossible were it not for the fact that the President and the other priests, scholastic and coadjutor brothers of the Society of Jesus give their services without compensation.

It is of the utmost importance that the debt should be rapidly diminished and that the College should be placed in a position to erect the wings originally planned for the structure and to undertake other greatly needed improvements.

For these purposes and for the general development of the College, the President appeals to all graduates, former students and friends of Catholic education for donations and legacies. The names of donors will be attached to buildings erected or funds established by them.

The President and Faculty wish to express their grateful acknowledgements to the following benefactors for their kind donations:

To all contributors to the Million Dollar Expansion Fund.

All Donors of Medals as specified in the Commencement Exercises.

The Canisius Sodality, one Annual Scholarship.

The Canisius Alumni Association, one Annual Scholarship.

The Buffalo Volksfreund Printing Co., one Annual Scholarship.

College Organizations

ATHLETIC ASSOCIATION

Faculty Director of Athletics.....	REV. OWEN S. C. MURPHY, S. J.
.....	
President.....	FRANK P. HENDRICKS, '22
Vice-President.....	JAMES E. HOAR, '23
Secretary and Treasurer.....	STEPHEN P. CAIN, '22
Executive of Senior Class.....	WALTER P. KOESSLER, '22
Executive of Junior Class.....	LAMBERT F. HALEY, '23
Executive of Sophomore Class..	HOWARD J. GLEASON, '24
Executive of Freshman Class..	CORNELIUS F. CANDEE, '25
Manager of Football.....	LAMBERT F. HALEY, '23
Captain of Football.....	GERALD E. CLANCY, '23
Coach of Football.....	LUKE J. URBAN, A.B.
Assistant Coach of Football....	FRANK MORRISSEY, A.B.
Manager of Basketball.....	PAUL E. HENDRICKS, '22
Coach of Basketball.....	LUKE J. URBAN, A.B.
Cheer Leader.....	GEORGE A. KOCH, '22
Manager of Track Team.....	ARTHUR J. REGAN, '22
Captain of Track Team.....	MANVILLE LOCHNIGHT, '25
Coach of Track Team.....	WILLIAM M. GRIFFIN, '23

THE CANISIUS MONTHLY

The Canisius Monthly was founded in September, nineteen hundred and fourteen. It is the outgrowth of the College Annual, a literary magazine published by the students of Canisius College at Main and Jefferson Streets, Buffalo, New York. Its aim is to cultivate a high literary spirit among the students by exercising them in both critical and creative composition. It serves also as a bond between the Alumni and their Alma Mater, by chronicling their success and recounting the happenings of college life. It is issued about the tenth of every month, excepting July, August and September. The subscription price is one dollar and fifty cents a year in advance; single copies, twenty cents. Remittances, literary contributions and business letters should be addressed to The Canisius Monthly, Main and Jefferson Streets, Buffalo, New York.

THE CANISIUS ALUMNI ASSOCIATION

Membership in this organization is open to all graduates of Canisius College and to priests who have finished the Sophomore Class. All students of college classes at Canisius, who have afterward taken degrees at other institutions of like grade, are eligible under certain conditions.

The object of the Association is to keep up the friendship of college days, to promote higher Catholic education and to further the interests of Alma Mater and the individual members of this Association.

Officers: President, George W. Wanamaker, A. M., LL.B.; Vice-President, Denis C. Harrington, A. M., LL.B.; Secretary, Leo A. Sweeney, M. S.; Treasurer, Eugene M. Burke, B. S.; Executive Committee, Rev. M. J. Ahern, S. J.; Everett Mercer, A. M., M. D.; Henry J. Doll, A. M., M. D.; Francis M. O'Gorman, A. M., M. D.; Francis E. Fronczak, A. M., M. D.

CANISIUS COLLEGE DEBATING SOCIETY

This Society not only affords opportunity for acquiring facility in public speaking and debate, but aims also at imparting a general knowledge of the political, economical and social questions of the day. Every speech, essay or declamation is followed by frank criticisms from the Director and the members. General discussions give ease and readiness in extempore speech. Meetings are held every Monday afternoon after class hours.

Moderator.....REV. DAVID C. CRONIN, S. J.
 President.....PAUL HENDRICKS, '22
 Vice-President.....CARLTON P. O'CONNOR, '22
 Secretary.....GERVASE M. MAGRUM, '23
 Treasurer.....EDWARD S. SCHWEGLER, '23

SODALITY OF THE BLESSED VIRGIN MARY

Under the Title of the Purification, and of St. Stanislaus
 Affiliated to the Prima Primaria of the Roman
 College, January 1, 1896.

Director.....REV. EDWARD T. FARRELL, S. J.
 Prefect.....CHARLES S. ROCHFORD, '22
 First Assistant Prefect.....JOHN J. BARDEN, '22
 Second Assistant Prefect.....STEPHEN P. CAIN, '22
 Secretary and Treasurer.....GERVASE M. MAGRUM, '23
 Consultors—GEORGE J. KOCH, '22; FRANK P. HEN-
 DRICKS, '22; ERNEST P. SMITH, '22; JOSEPH
 R. MULLEN, '22; EDWARD S. SCHWEGLER,
 '23; EDWARD M. CUDDIHY, '23; JAMES E.
 HOAR, '23; JOSEPH V. BRODERICK, '24
 Organist.....WILLIAM J. GRIFFIN, '23
 Porters.....HUGH K. WOLF, '23; JOSEPH B. LUTZ, '23

Admission

Candidates for admission, who are not personally acquainted with some member of the faculty, must present testimonials of good moral character. If they have previously attended some other institution of learning, detailed information concerning their previous studies is demanded, as well as a certificate of their class standing, and of honorable dismissal.

Admission may be by Examination, Regents' Diploma, or Certificate from an accredited academy, high school or normal school.

In all cases, the candidate must give satisfactory evidence that he has completed successfully a four years' course of study.

By Examination.—Students choosing this method of admission may take the examination of the College Entrance Examination Board, whose certificate will be accepted as far as it is equivalent. Information regarding the places, fees, dates and conditions of such examinations may be obtained from the Secretary of the College Entrance Examination Board, Post Office Sub-station 84, New York, N. Y. Students, however, wishing to take the examination at Canisius will apply to the Dean for a list of subjects of examination and the dates on which they will be held.

By Regents' Diploma.—The Academic and the College Entrance Diploma of the Regents of the University of the State of New York will be accepted in place of the examinations, as far as they cover the requirements for admission.

By Certificate.—The certificate will be accepted provided the subjects are equivalent to, or cover, the entrance requirements. In all other subjects an examination will have to be passed.

I. REQUIREMENTS OF ADMISSION TO REGULAR

B. A. COURSE

N. B.—The term "unit" means a course of four to five hours weekly throughout an academic year of the preparatory school.

Candidates for the degree of Bachelor of Arts must present from the list of subjects on pp. 15-17:

English 1, 2, 3.....	3	units
Latin 1, 2, 3.....	3	units
Greek 1, 2, 3.....	2	units
Mathematics 1, 2, 3.....	2½	units
French, German or Spanish 1, 2..	2	units
History	1	unit
Elective	1½	units
	15	units

Should a candidate, otherwise qualified, be unable to meet the requirements in Greek, he may take elementary Greek in his Freshman year and finish the Greek course before graduation.

II. REQUIREMENTS OF ADMISSION TO SCIENCE AND ENGINEERING COURSES

Candidates for the degree of Bachelor of Science must present:

English 1, 2, 3.....	3	units
Mathematics—		
Algebra	1½	units
Plane Geometry	1	unit
Solid Geometry	½	unit
Latin 1, 2	}	one of these.... 2 units
French 1, 2		
German 1, 2		
Spanish 1, 2		
Science	2	units
History	1	unit
Elective	4	units
	<hr/>	
	15	units

Elective units should be chosen from Latin, Greek, Modern Foreign Language, Mathematics, Mechanical Drawing, Science.

Requirements for admission to Premedical courses same as above, with the exception of Solid Geometry.

REQUIREMENTS IN INDIVIDUAL SUBJECTS FOR ADMISSION TO REGULAR COURSES

English. 1. Principles—Principles of Composition and Rhetoric involved in the use of words, the structure of sentences and paragraphs; the ordinary forms of composition; letters, narrations, descriptions and essays, versification. The matter contained in Genung's Outlines of Rhetoric and Coppen's Introduction to Rhetoric will serve to indicate what is demanded under this head.

2. Practice—The candidate will be required to write an essay based on the authors specified below for thorough study. The work must be correct in spelling, punctuation, idiom and division into paragraphs, and must give evidence of some proficiency in narration and description.

3. Literature—(a) A thorough study of the following works is required: Shakespeare's Merchant of Venice; Tennyson's Holy Grail and Sir Galahad; Gray's Odes and Elegy; Macaulay's Essays on Addison and Life of Johnson; Scott's Lay of the Last Minstrel; De Quincey's Joan of Arc; Irving's Sketch Book; Goldsmith's Deserted Village. (b) A general knowledge of the following is required: Addison's Sir Roger de Coverley; Coleridge's Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Dickens' Christmas Stories; Longfellow's Hiawatha; Hawthorne's Tanglewood Tales; Wordsworth's Selected Poems,

Latin. 1. Grammar—A thorough knowledge of the grammar, particularly of the structure of subordinate and dependent clauses in direct and indirect discourse. Also some acquaintance with Latin prosody and its application to hexameter and pentameter verse; scansion of Virgil and Ovid.

2. Composition—Translation into Latin of an easy continuous prose passage, based upon Cæsar or Cicero.

3. Reading—Nepos: Lives, to the end of the life of Alcibiades; also the Atticus. Cæsar: De Bello Gallico, four books. Ovid: Selections from the Metamorphosis and Tristia (1000 lines). Virgil: Eclogues; Aeneid, Book I. Cicero: De Senectute or De Amicitia. Orations against Cataline. Sallust: Cataline or Jugurtha. The translation at sight of passages not previously seen. Equivalentents will be accepted; but the reading required must not be less in amount than the above.

Greek. 1. A thorough knowledge of the etymology and syntax of the Greek grammar is required and must be shown by the candidate in oral explanation of passages taken from authors and in translation from English into Greek.

2. Reading—Xenophon, four books of the Anabasis, or an equivalent from the other writings of Xenophon.

3. Sight reading of easy Attic prose.

History.—1, Greek and Roman History; 2, English History; 3, American History. Elements of Civics; 4, General History.

Mathematics.—1, Elementary Algebra; 2, Intermediate Algebra; 3, Plane Geometry; 4, Solid Geometry; 5, Advanced Algebra.

MODERN LANGUAGE

French.—1, The elements of grammar, including the irregular verbs. Corresponding oral and written exercises. Analysis and idiomatic translation of Mairat, *La Tache du Petit Pierre*, or equivalent. 2, Syntax. Corresponding exercises from grammar and author. Daudet, *Le Petit Chose*, and Halevy, *L'Abbe Constantin* or the equivalent.

German.—1, Elements of grammar, including the irregular verb. Corresponding oral and written exercises. Reading: *Märchen und Erzählungen* or the equivalent. 2, Syntax with corresponding exercises from grammar and author. Reading: Stökl, *Unter dem Christbaum*, and Schiller, *Das Lied von der Glocke* or the equivalent.

Spanish.—1, Grammar as for French and German. Reading: Dorado, *España Pintoresca*. 2, Reading: Tomayo, *Lo Positivo*.

Physics. The most important facts and laws in elementary physics. Preparation should include the mastery of a standard text-book supplemented by numerical problems, instruction by lecture with demonstration and individual laboratory exercises. Note-book to be submitted.

Chemistry.—Preparation and properties of the common elements and their important compounds. Mastery of the more usual chemical terms and ability to make simple calculations and explanations of chemical processes. Preparation should include lectures and demonstrations, study of standard chemistry text-books, and laboratory exercises. Note-book to be submitted.

Elementary Biology.—(a) Courses of four or five periods a week in Botany, Zoology or Physiology; or (b) Courses of two or three hours a week in any two of these.

ADMISSION TO ADVANCED STANDING

A candidate for admission from another college must present a letter of honorable dismissal from the president or dean of that college. The faculty will accept properly authenticated certificates of work done in other colleges of good standing. No student, however, may be admitted as a candidate for a degree after the beginning of the Senior year of the class with which he would graduate.

For studies not pursued in residence and not certified to by a recognized institution of higher learning, credits toward degrees or certificate may be granted only in ex-

ceptional cases and only if the student passes successfully a special examination in each study for which credit is requested. Students who desire a special examination of this kind in order to secure credit for advanced standing must at the time of matriculation file with the Dean an application setting forth distinctly the facts and the evidence on which the request is based. If the application is granted by the Faculty, the special examination must be taken before the close of the first semester following matriculation.

ADMISSION TO SPECIAL CURRICULA

Candidates desiring to omit certain branches in any of the established curricula may be admitted as Special Students, provided they show themselves qualified to follow successfully the studies chosen. Such students are not candidates for a degree, but will receive a certificate showing their standing in all branches completed by them. The course in Philosophy, either in Latin or English, offers many intellectual advantages.

CONDITIONAL ADMISSION

Conditional admissions to A. B. course is granted to students who have earned 14 clear credits (13 for B. S. and Premedical Courses) in high school work. The conditions must be removed within one year from the date of admission.

ADMISSION TO GRADUATE COURSES

Students holding the degree of A. B. or B. S. from this College or other institutions of satisfactory standing may undertake postgraduate studies under the direction of the Dean and the heads of various departments.

Elective studies which have not been taken in the undergraduate years may be chosen for postgraduate work; but in this case candidates will be obliged to pursue them in a more extended form.

In the Department of Arts, some branch of Philosophy must be taken by every candidate for a higher degree.

For the Master's degree in Arts or Science, the equivalent of a year's college work is required. It must be understood that only students of exceptional ability and previous training will be able to finish the work in one year.

Examinations must be passed in every branch counted for a degree, and a thesis must be submitted showing original work. The examinations in all branches will be written and in certain branches oral examination will also be required, as determined by the Professors and the Dean.

Registration

Before attending any college exercise, each student must register, i. e., must present himself in person to furnish the information necessary for the college records and to file a statement of the courses he intends to pursue.

Registration is held at the office of the Dean, which is open for that purpose on the dates given in the college calendar. A registration or college fee of Five Dollars shall be paid by every new student entering the college.

Tuition Fee.—(a) All students of the Arts, Science and Premedical courses are charged besides the regular tuition fee of \$150.00, a special fee to cover the expense of materials used in the laboratory and lectures and for the use of general scientific apparatus. These charges are higher for students of the Science and Premedical courses, owing to the larger proportion of laboratory work and the consequent use of materials and apparatus.

(b) All students of the Business, Journalism and Engineering courses are charged the same tuition fee as students of the Arts course, and an extra fee will be charged for any subjects that are not specifically assigned to these courses.

N. B.—Some subjects of the Business course, e. g., Accounting, Banking, etc., are taught in the evening only.

(c) Special students taking ten hours a week or less, are charged at the rate of Five Dollars per semester hour. If they take more than ten hours a week, they are subject to the full tuition of \$150.00.

Fees and Other Expenses

Tuition in all departments, per annum.....	\$150.00
Registration fee—new students.....	5.00
Library fee and incidental fees, per annum.....	5.00
Athletic fee	10.00
Breakage fee (returnable)	5.00

SPECIAL FEES PER ANNUM

	Biology	Chemistry	Physics
Arts Course	\$15.00	\$ 5.00 or \$10.00	\$ 5.00 or \$10.00
Science	15.00	10.00	10.00
Journalism	15.00	10.00	10.00
Business	15.00	10.00	10.00
Special Lectures ..	15.00	10.00	10.00
Graduation fee			\$15.00

All charges for tuition are to be paid half yearly; other fees, both regular and special, are to be paid within the first quarter.

Accounts date from the opening day of college and students entering later will be charged for the full term.

Former students applying for a detailed certificate of standing must pay a Registrar's fee of \$1.00.

Fee for examination in any conditioned branch, each subject, payable in advance, \$2.00.

Text-books and stationery when purchased from the College must be paid for in cash. Arrangements may be made to have charges for books, etc., put on the bill for the first month.

Return of Fees.—(1) A student who withdraws on account of sickness shall be given a return pro rata to the number of weeks in the academic session.

(2) A student who withdraws for reasons other than sickness, or who is dismissed for any reason whatever, shall be entitled to no allowance upon any of the fees he has paid.

Fellowships

The **John A. Miller Fellowship in Chemistry**, founded in 1919, in honor of Dr. John A. Miller of Buffalo, N. Y., awarded annually to a graduate of Canisius College, holding a bachelor's degree. The holder gives half his time to laboratory instruction, and devotes the remainder to study and research, with a view to obtaining the degree of M. S.

The **Victory Fellowship in Chemistry**, founded in 1919, to commemorate the Victory meeting of the American Chemical Society which was held in Buffalo in April, 1919. Conditions and obligations are similar to the John A. Miller Fellowship.

Two Fellowships in Physics were awarded for the first time in 1920.

One Fellowship in Biology not awarded in 1921.

The total value of each of these Fellowships is about \$500.00 a year. Complete information regarding Fellowships may be had from the Dean.

Scholarships

The Scholarships are of two kinds—permanent and annual. A permanent scholarship is provided by a gift of \$3,000; an annual scholarship by a gift of \$150.

The following scholarships now exist in the College and High School and are available as they become vacant:

PERPETUAL SCHOLARSHIPS

- Miss Flora Fricker (1).
- Rev. H. M. Leddy (3).
- Rt. Rev. Msgr. John Biden, D. D. (1).
- St. Michael (1).
- Canisius Alumni Sodality (1).
- C. H. F. Scholarship (1).
- Ignatius Woeppel (1).
- Rosa Mystica (J. L. P.) (1).
- Rev. William Riszewski (1).
- Rev. George Weber (1).
- D. H. Coakley, Brighton, Mass. (1).
- Albert A. Bettinger Scholarships.
- General Scholarships (18).

The following perpetual scholarships were established as a result of the Million Dollar Campaign held in October, 1920:

Rt. Rev. William Turner	St. Francis de Sales Church
Rev. H. B. Laudenschach	St. Francis Church Society
Rev. H. J. Adelman, S. J.	Mrs. Catherine Simons
Rev. Alexander Pitass	Mr. Peter Hentz
Rev. Thomas Stabenau	Mr. and Mrs. M. A. Martin
Rev. Leon E. Hoen	Mr. Charles P. Dewes
St. Michael's Church	Mr. Mathias Hens
Greater Buffalo Advertising Club	

ANNUAL SCHOLARSHIPS

One Scholarship given by the Canisius Alumni Association.

One Scholarship given by the Canisius Alumni Sodality.

One Scholarship given by the Rev. Joseph Hummel.

One Scholarship given by the Rev. Charles Duffy, D. D.

The Scholarships at present in existence apply to both the High School and College, but the tenure of the incumbent ceases at the end of the High School period and the Scholarship is thrown open to general competition for the College course.

Any holder of a Scholarship whose conduct or proficiency in studies fails to give satisfaction to the College authorities will forfeit his privilege.

Information concerning conditions, dates of competition, etc., may be obtained from the Dean.

NEW YORK STATE UNIVERSITY SCHOLARSHIPS

In every county of New York State, five Scholarships for each assembly district comprised therein are given annually by the State. In Erie County, therefore, the number of such Scholarships is forty-five.

Each such Scholarship entitles the holder thereof to the sum of one hundred dollars for each of the four years of attendance upon an approved college in this State.

The Scholarships are conferred by the Commissioner of Education upon those students who have passed with the highest standing in their respective counties (not districts) the Regents' examinations for college entrance and have secured the corresponding diploma.

Canisius College is one of the approved institutions in which such Scholarships may be enjoyed.

Medals and Prizes

None of the medals or prizes offered by the College are founded, but are presented from year to year by various generous benefactors.

The St. Thomas Aquinas Medal.—A gold medal is awarded annually to the member of the Senior Arts Class who is most proficient in Philosophy.

The Suarez Medal.—A gold medal is awarded annually to the student in Senior Science Class who shows most proficiency in Philosophy.

The St. Ann's Medal.—A gold medal, the gift of the Jesuit Fathers of St. Ann's Church, Buffalo, N. Y., is awarded annually to the student in Junior Arts Class who has the highest class standing in Philosophy, Physics and Chemistry or Biology.

St. Aloysius Medal.—A gold medal is awarded annually to the student in Junior Science Class who has the highest class standing in Philosophy and Science.

Class Medals.—Gold medals are awarded annually to the students who attain the highest class standing in Sophomore and Freshman Arts and in Sophomore and Freshman Science Classes.

The Pasteur Medal.—A gold medal is awarded annually to the student in second year of the Premedical Course who has the highest standing in English and Science.

The Father Wassman Medal.—(Same for first year of Premedical Course.)

N. B. Premiums.—Book prizes are awarded annually to the students who stand second highest in all the above mentioned classes.

The Canisius Alumni Sodality Medal.—A gold medal, the gift of the Canisius Alumni Sodality, is awarded annually to the student who wins first place in the Oratorical Contest held in the spring of each year.

Essay Prizes.—Six prizes of twenty dollars are awarded annually to the students who present the best essay on some subject in Literature, History, Chemistry, Physics, Biology and Philosophy.

Book Prizes are awarded annually to the students who have the highest standing in History, Calculus, Freshman Mathematics, Natural Science in Sophomore Class, German and French.

The Valerian A. Ruskiewicz Memorial Prizes.—Two prizes of Fifty Dollars each to be awarded annually to the two members of the Senior class, who have the highest standing for all the work of their college course in Physics and Chemistry respectively.

General Regulations

DISCIPLINE

The regulations of the College are calculated to secure the order necessary for the effectual pursuit of studies, to develop and strengthen character, and to promote gentlemanly deportment and polite manners. They are enforced with parental gentleness, combined with energy and firmness. The motives appealed to are honor, conscience and religion.

Although the institution cannot be held responsible for the conduct of students outside of the premises, yet bad conduct outside as well as on the premises, profane or unbecoming language, insubordination, continued inapplication to studies or irregularity in attendance, are causes for dismissal.

All lecture and class hours are of fifty minutes' actual duration; laboratory hours, generally arranged in sessions of two or three together, are of sixty minutes.

The students are required to be regular and punctual in their attendance. Without regular attendance and serious application on the part of the students, it is impossible to attain the purpose for which they are received into the institution.

Parents and guardians of students are informed that home study for the space of two or three hours is required every day. If a student does not devote this amount of time to his studies, the Prefect of Studies should be informed. A notice should also be sent whenever illness or any other cause prevents a student from attending class; a written excuse signed by parents or guardian must be handed to the Prefect before a student is again admitted to the class. But even when so excused, students are not relieved from the duty of making up any work that was required during the time of their absence. Students who are not present 90% of the school year cannot be promoted in June. Frequent communication of parents with the authorities is invited.

EXAMINATIONS AND REPORTS

The standing of each student is determined by daily recitations, home work and oral and written reviews.

The first prize in each class is a gold medal, which is awarded to the student who has the highest class standing for the whole year; a premium is awarded to the student next in merit. Premiums are also awarded to all students having the highest total average in their respective classes of Mathematics, of Modern Languages, or of Sciences. Distinctions in single branches suppose a percentage of 80 in that branch.

No medals are awarded for class standing under 90; no premium for class standing under 85.

Students who fail to reach an average of 65 per cent for the year in any class branch are debarred from the medal and the premium of that class, even though their general average might otherwise entitle them to one or the other.

Any serious complaint against a student's conduct, attendance, application or deportment will exclude him from all honors.

In determining the class standing in the Arts course, Latin, Greek, English, History and Evidences of Religion are combined. Separate averages are computed for standing in Mathematics, Natural Sciences and Modern Languages.

In the Science course a similar method is pursued, Natural Sciences, English, History and Evidences of Religion being combined in determining the class standing.

Frequent reports are sent to parents and guardians, who are requested to sign and return them promptly.

The student's proficiency is determined according to the following table:

A—100 to 95 per cent.....	Excellent
B— 94 to 85 per cent.....	Very Good
C— 84 to 75 per cent.....	Good
D— 74 to 65 per cent.....	Tolerable
E—Below 65 per cent.....	Failure and condition

A condition means that the student has to pass a satisfactory examination in the branch in which he has failed, before he can be promoted to a higher class.

No student will be permitted to take final examinations in any subject in which on June 1 his class standing (the average of monthly marks and mid-year examinations) is below 65.

Written tests in all branches are held repeatedly during the year. Oral examinations in Latin and Greek, and written examinations in all branches are held at the close of each term. A fixed day will be set for the examination of all students subject to conditions. A conditioned student will be required to pay a fee of two dollars.

After September, 1921, mark for recommendation to higher and professional studies, 75%.

CHAPEL ATTENDANCE

Catholic students are required to make the annual Spiritual Retreat, and they are expected and urged to receive Sacraments of Penance and Holy Communion at least once a week. Non-Catholic students are not required to take part in the exercises of religion.

Divisions of Instruction

DIVISION OF ARTS AND SCIENCES

The most effective means for acquiring a broad and thorough cultivation of the mental faculties which is the aim of all true education and the best foundation for special and professional training, is recognized to be the full and accurate study of the Latin and Greek classics. In connection with these, a thorough training in the arts of composition and rhetoric and in general literature, together with a comparative study of the English language and literature, is essential.

The analytical study of language and letters promotes exactness of thought, delicacy of perception and facility of expression, by the constant and keen exercise of judgment and taste, as well as of the reasoning powers. In this regard, the languages of ancient Rome and Greece, when intelligently and seriously studied, offer greater advantages than any other. They are also most helpful to the knowledge of our mother tongue. Their structure and idiom, so remote from the language of the student, reveal to him the laws of thought and logic and demand reflection and analysis of the fundamental relations between ideas and expression; they exercise him in exactness of conception in grasping the author's meaning and in clearness and delicacy of expression in clothing that thought in the very dissimilar garb of his own native tongue.

One modern language, usually French or German, is required, in addition to English.

History, which has been rightly described as Philosophy taught by examples, brings the student in close contact with the great minds and characters of all ages and familiarizes him with the development and vicissitudes of civilization.

The Higher Mathematics, besides providing the scholar with the instruments of progress in the natural sciences, impart to the mental faculties a special kind of training that cannot be ignored.

The sciences of Physics, Chemistry, Geology and Biology must be known, at least in their outlines and with exact appreciation of their principles, if one wishes to be abreast of modern thought. They are, therefore, made obligatory features of the course.

But, above all, Mental Philosophy is considered of the highest importance. It gives the key to all true knowledge

of nature, of man and God, and lays the only solid formation for all other sciences, while revealing their interdependence and method.

Hence in the last two years of the course a thorough study is made of Scholastic Philosophy in its various branches, such as Logic, Metaphysics, Psychology, Natural Theology, Ethics and Political Economy.

The successful completion of the curriculum in Arts and Sciences, which extend through four years, leads to the degree of B. A.

Requirements for B. A. Degree.—No student can receive the B. A. degree who has not pursued the last year of his under-graduate course in Canisius College. All candidates for the B. A. degree must take the following courses:

(a) In Freshman and Sophomore Classes:

Two courses in English, in Latin and in Greek.

One course in General Inorganic Chemistry.

One course in Physics.

Two courses in History.

One course in Modern Language.

One course in Mathematics.

(b) In Junior and Senior Classes:

Since Philosophy holds the position outlined above, each student is required to follow Scholastic Philosophy as his major subject in Junior and Senior. Related minor subjects must be chosen under the direction of the Dean and the heads of departments.

After September, 1921, candidates for all Bachelor Degrees must obtain an average standing of 75% in all studies of the four years.

DIVISION OF GENERAL SCIENCE

The course in General Science is intended for those students who wish to obtain a more specific training for later work in technological, medical or industrial science than the Arts Course affords. While it is not strictly a technical course, the subjects included represent more than half of those required in engineering courses in our leading technical schools. A student may thus make the first two years of an engineering course in connection with liberal studies. The faculty hope soon to be in a position to announce courses in civil, mechanical, electrical and chemical engineering. At the same time, the demands of general culture will

be fulfilled more completely than is usual in strictly scientific or technical education.

The Course in General Science differs from the Arts Course in this, that it substitutes for the requirements in Latin and Greek of the Arts Course, subjects in the Natural Sciences. Other subjects, viz.: English, History, Modern Languages, Evidences of Religion, Elocution, Philosophy and Electives of a non-scientific character, are common to both courses. Philosophy, however, is reduced to a smaller compass and English is extended. The electives in Science in the Junior and Senior years will naturally be of a more advanced character in the Scientific Course than the similar electives in Science offered in the Arts Course.

The successful completion of this course is rewarded with the degree of Bachelor of Science.

PREMEDICAL

This course is intended for students preparing to enter upon the study of medicine, who are unable to devote to college studies the period of four years necessary for the attainment of a degree in Arts and Sciences.

All candidates for medical schools in New York State must present the medical-student certificate of the Regents of the University of the State of New York, based on the following qualifications: The completion of not less than two full years of study, or the equivalent, in an approved college or scientific school, which college course must have included at least one year's instruction in the elements of Physics, Inorganic Chemistry, and Biology, and French or German.

These courses represent the minimum requirements for admission to medical schools. It is highly recommended that, if possible, the college work include three, instead of two years, so as to allow a more thorough preparation in Physics, Chemistry and Biology.

The Premedical Course of Canisius College, besides the usual training in Science, Mathematics and Languages already noted, includes a solid training in general philosophy. It is felt that the prevalence in our time of false speculations and mistaken theories, and the general ignorance or neglect of the fundamental principles of morality, render such a course in the more important questions of Logic, Psychology and especially of Ethics, not only helpful to the students

preparing for medical schools, but even necessary to fit them for their future studies and practice.

Great efforts have been made to have the Premedical Course meet all the requirements of the representative medical schools in the east.

FIRST YEAR

Subject	Hours Per Week
English	3
Modern Language	3
Psychology	3
Chemistry	5
Biology	3
	17

SECOND YEAR

Subject	Hours Per Week
English	3
Modern Language	3
Ethics	3
Physics	5
Chemistry	5
Biology	4
	23

The courses in Journalism, Business Administration and Engineering were begun in September, 1920. The schedules for these courses during 1921-1922 follow. It is hoped that the new Canisius Science and Engineering Building will be ready for use in September, 1922.

BUSINESS ADMINISTRATION

Freshman Year

	Hours Per Week
English	3
Accounting	5
Business Law	2
Modern Language	3
Industrial History	3
Mathematics	4

Sophomore Year

	Hours Per Week
English	3
Economics	3
Business Law	2
Advanced Accounting .	5
History	3
Modern Language	3
Physics or Chemistry..	3

JOURNALISM

Freshman Year

	Hours Per Week
English	3
Modern Language	3
Natural Science or Latin	5
History	3
Public Speaking	1

Sophomore Year

	Hours Per Week
English	3
Journalism	3
Modern Language	3
History	3
Social Science	3
Public Speaking	1

GENERAL SCIENCE AND ENGINEERING

Freshman Year

(Same for all courses.)

	Hours Per Week		Hours Per Week
General Inorganic Chemistry	5	Mathematics	4
		Trigonometry	

		Analytical Geometry	
Mechanical Drawing and		Physics	4
Descriptive Geometry	3	English	3
		History	3

CIVIL ENGINEERING

Sophomore Year

	Hours Per Week		Hours Per Week
Applied Mechanics	1	Physics	4
Drawing, including		English	3
Stereotomy	3	Geodesy, Map-reading	
Elementary Surveying		and Topographical	
and Plotting	2	Drawing	2
Calculus	3	History	3

CHEMICAL ENGINEERING

Sophomore Year

	Hours Per Week		Hours Per Week
Qualitative Analysis ..	7	English and History..	3
(Summer after Fresh-		German	3
man Year)		Calculus	3
Applied Mechanics ...	1	Mechanism	1
Quantitative Analysis..	4	Chemical Engineering	
Physics	4	Problems	1

ELECTRICAL ENGINEERING

Sophomore Year

	Hours Per Week		Hours Per Week
Applied Mechanics	1	Mechanism	2
Electrical Engineering,		Physics	4
Principles of	2	Machine Tool Work...	2
English and History...	3	Foundry and Vise and	
Drawing, Machine and		Bench Work	2
Mechanical Engin-		(To be taken in the	
eering	3	Summer after the	
Mathematics (Calculus)	3	Sophomore Year.)	

MECHANICAL ENGINEERING

Sophomore Year

	Hours Per Week		Hours Per Week
Applied Mechanics	1	Mathematics (Calculus)	3
Drawing (including		Physics	4
Machine Drawing and		Mechanism and Pattern	
Mechanical Engin-		Making	4
eering Drawing)....	5	English	3
Elementary Surveying.	1	History	3

College Courses for Teachers

SEPTEMBER, 1921—JUNE, 1922

THE TEACHING STAFF

The instruction in these courses will be carried on by the members of the faculty of Canisius College, who will be assisted by special instructors from Canisius High School and other high schools and colleges of Buffalo and vicinity.

The attention of the public is called to the fact that these courses are not Extension Courses as generally understood, and should not be called Extension. The instruction given in the College Courses for Teachers corresponds in every respect, in the nature of scholarship required, in lectures, recitations, etc., to that offered in the regular courses and leads to the Bachelor degrees.

STUDENTS

The courses, which have been inaugurated in response to numerous and repeated requests, are open to both men and women.

They are designed primarily for two classes of students: First, mature students, unable to complete the regular college course, but who wish to pursue liberal studies of college grade, without aiming at an academic degree; second, teachers and others who are desirous of gaining credits towards a future degree. Students of this second class must fulfill the requirements for admission to the regular arts and science courses of the college. It must be clearly understood that this is not to be taken as meaning that any high school graduate may substitute these courses for a regular college course, or augment college credits by extension courses pursued simultaneously with a college course.

CREDITS

Under the direction of the faculty the extension courses will be so arranged as to count towards the degree of Master of Arts and Master of Science, as well as towards the degrees of B. A. and B. S.

To obtain college credits towards a degree, or to be entitled to a certificate of work done in the extension courses, attendance at nine-tenths of the sessions in each course is

required besides passing marks in class work and examinations.

Students attending the courses may fulfill the two years of collegiate study required for entrance to medical schools.

ADMISSION REQUIREMENTS

Requirements for admission to the College Courses for Teachers are substantially the same as the requirements for the regular Arts and Science courses of the College.

REQUIREMENTS FOR GRADUATION

In order to receive a degree, a student is required to complete one hundred and twenty semester hours of work and to maintain an average grade of C, i. e. 75-84.

BACHELOR OF ARTS

BACHELOR OF SCIENCE

	Semester hours		Semester hours
English	12	English	12
History	6	History	6
Languages, Ancient ..	16	Languages, Modern...	12
Languages, Modern ..	6	Mathematics	4
Mathematics	4	Philosophy	16
Philosophy	16	Sciences, Natural	16
Sciences, Natural	8	Electives	54
Electives	52		<hr/>
	<hr/>		120
	120		

ELECTIVES

Chemistry	History	Spanish
Biology	English	Philosophy
Physics	Greek	Political Economy
Geology	Latin	Sociology
Astronomy	French	Religion
Mathematics	German	Education
	Music	

GRADUATION REQUIREMENTS FOR GRADUATES OF NORMAL SCHOOL

Graduates of Normal Schools who have satisfied the college entrance requirements, will be expected to obtain the following college credits for a Bachelor's degree in addition to work of the Normal School:

BACHELOR OF ARTS**BACHELOR OF SCIENCE**

	Semester hours		Semester hours
English	12	English	12
History	2	History	2
Latin	16	Modern Language ...	12
Modern Language ...	6	Mathematics	4
Mathematics	4	Philosophy	14
Philosophy	14	Sciences, Natural	16
Sciences, Natural	6		<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>		60
	60		

EXPENSES

Registration fee, payable once, \$5.00.

Courses—For each credit hour, \$5.00.

Laboratory fees, in the courses of Chemistry, Physics and Biology, per term, each course, \$10.00. Deposit to cover breakage, \$5.00.

All fees must be paid in advance. No reduction is made for withdrawal or absence, except in case of protracted illness.

Former students applying for a detailed certificate of standing must pay a Registrar's fee of \$1.00.

Fee for examination in any conditioned branch, each subject, payable in advance, \$2.00.

Text-books and stationery, when purchased from the College, must be paid for in cash.

REGISTRATION

Registration for the First Term will be held on September 28, 29, 30, 1921. Classes begin on October 3rd. The First Term runs seventeen weeks and ends January 31, 1922.

Registration for the Second Term will be held on January 30-31, 1922. Classes begin on February 1st. The Second Term will end June 3.

N. B. The payment of fees is part of the registration. Fees, therefore, must be paid in advance.

Summer Session

A Summer School for the Teaching Sisters of the Diocese of Buffalo, under the auspices of the Right Reverend Bishop of Buffalo and the Diocesan Superintendent of Schools, was inaugurated at Canisius College in 1919. The courses are conducted by members of the faculty of Canisius College and of Canisius High School, of other Jesuit Colleges and High Schools, and of D'Youville College. The Summer Sessions are open to lay women as well as nuns.

The courses offered in the Summer School are designed to be of assistance to:

A—Sisters who are desirous of taking examinations in certain subjects for the State Teachers' Certificate;

B—Sisters and lay women who are desirous of gaining credits towards a possible future College degree.

Courses of Instruction

NOTE.—The courses marked (E) are given in the College Courses for Teachers (1921-22); those marked (S) are the courses given in the Summer Sessions (1921). All other courses are those of the regular college curriculum.

APOLOGETICS

Apologetics, E. 1.—Religion in general. Christian revelation; Evidence for this revelation. Founder of Christian revelation. Marks, etc., of the Church. Monday and Wednesday, 4:30-5:45. Three credits.

ASTRONOMY

Astronomy.—Three periods a week for one term required in Senior class.

Celestial Mechanics, Descriptive Astronomy, Application of general principles of Trigonometry, Astronomical instruments, Observation.

BIBLE, THE

Bible, S. 1.—Its origin, interpretation, and inspiration, 2 credits.

BIOLOGY

Biology I.—One hour lecture and two hours laboratory work weekly throughout the year. The course is required for Premedical I and for those students in the Arts and Science courses who intend to study medicine.

This course affords preliminary work for all those students who intend to study medicine in the future. It has as its object the training of the powers of observation, comparison and judgment, by the actual examination of a number of typical animals and plants which have already been studied during the lecture periods. As an intelligent use of the microscope and a certain skill at dissection are expected in first-class medical schools, much importance is laid on these matters.

Besides laying a foundation for the study of biology, the course comprises the study of typical forms among the plants and lower animals.

For this work a new biology laboratory with complete modern equipment has been built.

Biology II.—Two hours lecture and four hours laboratory work weekly throughout the year. This course is required of Premedical II and of those students of Arts and Sciences who took Premedical I.

This course supplements the work of Biology I. The end in view is the same, although greater stress is laid on the matter of microscopical work and dissection. Typical specimens from the five classes of vertebrates are carefully studied and dissected. During these dissections the position and structure of the various organs of the different animals taken are carefully compared. A certain number of microscopic slides are also required of all students. For this purpose a new rotary microtome, paraffin oven and other instruments have been provided.

Biology III.—Two hours lecture and four hours laboratory throughout the year. This course is required in Sophomore Science and optional in Junior and Senior Arts for the men who do not intend to study medicine.

This course gives a general knowledge of the whole field of Biology, including both animals and plants. As in Biology I and Biology II it still aims at developing the same powers of the mind, but in a way that will be most helpful to men in ordinary life, whether it be in business, in social or political life, or in the study of philosophy or theology. Consequently only those animals and plants are chosen that will best serve this purpose.

Biology, S. 1-2.—First half of the General Biology Course, 1 hour lecture and 2 hours' laboratory work daily—4 credits.

Biology, S. 3-4.—Second half of the course in General Biology, 1 hour lecture and 2 hours' laboratory work daily—4 credits.

BUSINESS

Accounting, E. I.—First year accounting. Thorough review of Bookkeeping. The operation of complete set of books, starting with individual ownership, through to corporations. Elements of accounting. Monday, 7:30-9:30. Two credits.

Accounting, E. II.—Second year accounting. Advanced accounting, including principles of accounting, Corporation

and Cost Accounting, Factory Management. Wednesday, 7:30-9:30. Two credits.

Modern Banking, E. I.—A thorough understanding of Modern Banking Methods is of great importance to the future business man—it is essential to the progressive banker. Big business of today almost invariably includes a banker as one of its advisors; any business can secure a similar advantage if its manager has a thorough understanding of banking principles. These principles are fully outlined in a comprehensive manner in this course. Monday and Thursday, 7:30-8:45. Three credits.

Life Insurance, E. I.—A general course dealing with (1) the underlying principles, (2) the important practices, and (3) the principle phases of life insurance. Designed for those who wish to know only the chief principles and practices of the insurance business for practical assistance in their future business undertakings. Tentative Outline of the Life Insurance Course.

I. Nature and Uses of Life Insurance:

1. Nature of life insurance and the basic principles underlying it.
2. Family and personal uses of life insurance.
3. Business uses of life insurance.
4. Classification of policies.
5. Term Insurance.
6. Ordinary life insurance.
7. Limited-Payment policies.
8. Endowment Insurance.
9. Installment policies.
10. Other leading types of contracts.

II. The Science of Life Insurance:

11. The measurement of risk in life insurance.
12. Fundamental principles underlying rate-making.
13. The net single premium.
14. The net single premium (continued).
15. The net level premium.
16. The reserve.
17. The gross premium-loading.
18. Surrender values and policy loans.
19. Surplus.

III. Special Forms of Life Insurance:

20. Fraternal and Assessment insurance.
21. Industrial insurance.
22. Disability insurance.
23. Group insurance.

IV. Organization, Management and Supervision of Legal-Reserve Companies:

24. Types of legal-reserve companies.
25. Organization of companies.
26. Life insurance investments.
27. Government supervision of life insurance.

V. Important Legal Phases of Life Insurance:

28. Legal interpretation of the policy and application.
29. Insurable interest.
30. The law pertaining to the beneficiary.
31. Law pertaining to assignment of policies.
32. The law pertaining to the agent.

The above is to be covered by lectures and text. Other lectures will be given on Government Insurance, Sub-standard Insurance, and other new phases of insurance. 7:30-8:45, Wednesday and Friday. Three credits each term.

INVESTMENTS

Investments, E. I.—In view of the increasing interest in and importance of bond investment, we include here a course which aims to give the prospective business man and investor a grasp of the broad principles underlying the science of investment whereby he may apply for himself the necessary tests for security, marketability and yield. No special study of economics or accounting is necessary.

Course will cover real estate mortgage bonds, government and municipal bonds, corporation bonds; analysis of the financial statements of corporations and municipalities; methods of financing, and methods of investing. Problems will be studied from the point of view of the interests of the investor.

I. Introductory:

Investment versus gambling and speculation. Elements of an ideal investment.

II. Stocks & Bonds:

Definition.

Classes of stocks, common and preferred.

Classification of bonds and their nature:

Government and Municipal Bonds.

Farm Mortgage Bonds.

Corporation Bonds; Railroad, Industrial and Public Utility.

Debentures, notes, mortgage.

Income, Collateral Trust Bonds.

Equipment Trust Bonds, Long and Short Term Securities.

III. Financial Statements:

Municipal:

Debt limits, capacity for taxation, etc.

Corporation:

Earning power.

Capitalization, plants, operating costs.

Relation of income to capital. Kinds of debt. Security of obligations as shown by financial statement. Margins of safety.

IV. Bond Values:

Price changes. Dependence of bond values on demand for funds, and interest rates. Cycle of trade.

Investment Barometers:

Commodity Prices.

Steel Market.

Railroad Earnings.

Building Operations.

Employment, Immigration.

Exports & Imports.

Bank Clearings.

V. Marketing:

Banking groups and syndicates.

Listed and unlisted bonds.

VI. Classes of Investors, and their needs. Private investor,

“Large” and “Small” investor. Banks, Insurance companies, Trust companies, Institutions.

When and how to make and care for investments.

Friday evening, 7:30-9:30. Two credits.

Business Law E I.

Preliminary Topics.

Principles of Contract, Operation and Discharge of Contracts.

Particular Contracts:

- (a) Sales.
- (b) Bailments.
- (c) Insurance Contracts.
- (d) Credit and Loans.
- (e) Contracts of Guaranty.

Negotiable Instruments.

Agency.

Master and Servant.

First year course. Tuesday, 7:30-9:30. Two credits each term.

Business Law E II.

Short review of Business Law I.

Business Associations:

- (a) Partnerships.
- (b) Joint Stock Companies.
- (c) Corporations.

Personal Property.

Real Property:

- (a) Estates in Real Property.
- (b) Land.
- (c) Relative Rights of Owners.
- (d) Transfer.
- (e) Mortgages and Liens.
- (f) Landlord and Tenant.

To this will be added, if time permits, a discussion of the legal aspects of Income, Transfer and Estate Taxes.

Second year course. Friday, 7:30-9:30. Two credits each term.

CHEMISTRY

Instruction in general Inorganic Chemistry is given to all students in regular courses. For students of the Science and Premedical courses this instruction is of obligation in their Freshman year, for students of the Arts course in their

Sophomore year. The course is designed not merely to familiarize the student with the principles of the science and the descriptive chemistry of the non-metallic and metallic elements, but to constitute an introduction to scientific methods of experimentation, observation and reasoning. Every attempt is, therefore, made to impress upon the student the importance of neatness, accuracy and thoughtfulness in connection with his laboratory practice and to point out rigidly the line of demarkation between the functions of the senses and the intellect in all fields of science.

The instruction in chemical subjects is continued throughout the four years of the Science course, the two years of the Premedical course, and as an elective through two years of the Arts course, and includes Theoretical, Analytical and Organic Chemistry as well as opportunity for elective courses in specialized postgraduate work. Students in the Science course devote, as a rule, more time to these subjects than students in other courses and their work is accordingly somewhat more advanced.

The opportunity for individual research work in the various branches enumerated above is unusually extensive and a private laboratory is well equipped for advanced work of this character.

The aim throughout all the courses of chemical instruction is to teach the student self-reliance, to inculcate habits of accurate thought and work and to afford such a training as will fit him to cope successfully with scientific and technical problems.

Senior Optional Studies in Chemistry.—Students in classes later than the class of 1918 will be allowed to select optional subjects in both terms of their Senior year from the following postgraduate courses: Quantitative Analysis II, a course in technical Metallurgical Analysis; Physical Chemistry, including the Chemistry of the Celloids.

The selection of optional subjects must be made with the approval of the head of the Department and other subjects than those enumerated above may be proposed for acceptance when the student has had the necessary preparation and his schedule of hours permits.

Postgraduate Courses in Chemistry.—In general the requirement for admission to postgraduate courses leading to the degree of M. S. is a recognized degree, either B. A. or B. S. These same courses not leading to a degree may be followed by students not having degrees but possessed of

the necessary preliminary instruction as noted under "preparation" in the description of each course.

Undergraduate Courses in Chemistry:

1. Inorganic Chemistry I.
2. Inorganic Chemistry II.
3. Qualitative Analysis II.
4. Quantitative Analysis I.
5. Organic Chemistry I.
6. Physical Chemistry.

1. Inorganic Chemistry I.—Two hours lecture and recitation, two hours laboratory a week for one year. Required in the Arts and Premedical Courses.

This course provides an elementary treatise on the underlying principles and theories of Inorganic Chemistry, adapted for the use of those students who do not intend to follow a scientific course.

Verification of the more important principles enunciated in the lecture room is demanded of the student by the performance of well selected experiments.

Every attempt is made to impress the student with the great importance of neatness, thoughtfulness and accuracy in recording the results of his experimentations.

2. Inorganic Chemistry II.—Three hours lecture or recitation and four hours laboratory work a week for one year. Required in the Science and the Engineering courses. Preparation: Vd. Entrance requirements.

This course provides for a review of the fundamental laws and conceptions of chemistry, and, in addition, for the study of velocity of reaction, kinetic molecular theory, solution, electrolytic dissociation theory, the periodic system of the elements, chemical equilibrium, the non-metallic elements and their reactions. The natural families of metals are then studied and especial emphasis laid on the detailed study of the properties of elements and compounds in their relation to the classification afforded by Mendeljeff's Periodic System. Special stress is laid upon such technical and industrial processes as The Fixation of Atmospheric Nitrogen. The Manufacture of Sulphuric Acid and Sodium Carbonate, The Metallurgy of Iron and Steel, The Chemistry of Photography, The Chemistry of Fertilizers. Several hundred problems are presented for solution. These problems deal with the reduction of gases to standard conditions,

chemical equations, thermal equations, gas equations, determination of equivalent, molecular and atomic weights. The laboratory work consists of seventy-five experiments. These experiments include the isolation of the principal non-metallic elements and the formation of their compounds, the determination of approximate atomic weights, the verification of the fundamental Laws of Chemistry, electrolysis, ionic equilibrium, neutralization, the tests for, and properties of, the metallic elements and their more important compounds. Students are required to construct as a result of personal experimentation an electromotive series of the metals. Monthly presentation of Lecture-Synopses and Laboratory Reports is demanded.

3. Qualitative Analysis II. Lectures, recitations, laboratory work, six hours a week for one year. Required in Science course. Optional in Arts course. Preparation: Chemistry 2 or 1.

This course is an attempt, on the experimental side, to train the student of qualitative analysis in careful manipulation and exact methods of procedure such as are commonly employed in quantitative analysis. It is an attempt, on the theoretical side, to make clear to the student the reason for each operation and result and to accustom him to apply to them the laws of chemical equilibrium and the principles relating to the ionization and complex-formation of substances in solution. It is assumed in this course that the student has acquired in his previous course on Inorganic Chemistry, a general knowledge of the mass-action law and of the chemical aspects of the ionic theory. Not only is the educational value of the course broad but it serves as a necessary introduction to the study of quantitative analysis. In addition to the methods for detecting the ordinary basic-constituents as outlined in Chemistry 3, additional methods for identifying the rare metals are considered in this course. Supplementary procedures for the detection of Ammonium; the determination of the State of Oxidation of Mercury, Tin, Iron and Arsenic; the detection of very small quantities of Arsenic and Antimony are also given. In the detection of Acidic constituents a more complete and more instructive system of analysis than that included in Chemistry 3 is presented. Reactions in the Dry way are studied in detail. The conduct of substances when heated in closed and open tubes, on charcoal before the blowpipe with or without solid reagents. Characteristic flame tests and behavior upon fusion with microcosmic salt and borax are also noted. The course is concluded with the presentation of various comprehensive

schemes for the complete analysis of any unknown inorganic substance. These schemes are tested by the analysis of unknown minerals, salts, alloys and pigments. At the beginning of every second laboratory exercise class-room conferences are held at which the experiments to be made next are discussed in outline and those made at the previous exercises are reviewed in detail. These conferences are carried on mainly by questioning the individual students and by encouraging them to ask questions as to matters which they do not understand. In addition to these recitations, reports, representing about eighty analyses are demanded.

4. Quantitative Analysis I.—Lecture, recitations, laboratory work, six hours a week for one year. Required in Science course. Optional in Arts course. Preparation: Chemistry 1, 3 (minimum).

In this course one term is devoted to Gravimetric analysis, the other to Volumetric analysis. The time is spent upon simple quantitative analyses which are typical of the subdivisions of the subject, such, for example, as the gravimetric determination of Aluminum in alum, of Copper in purified Copper sulphate, of Iron in an unknown Ferrous salt, of Chlorine in an unknown soluble chloride, of sulphuric, phosphoric and carbonic acids; of iron calcium and magnesium; of silica in glass; the volumetric determinations involving the use of acid and alkali, and such oxidizing agents as potassium bichromate and permanganate, and iodine, as well as the process of chlorimetry. Included in this course are: the calibration of flasks and burettes and a thorough study of "end-point," involving modern conceptions of internal indicators. Great stress is laid upon the accuracy necessary for quantitative work. Special attention is given to Stoichiometry and the modern theories of solution as applied to Quantitative Analysis. Reports representing twenty-five analyses of chemically pure substances are demanded.

In connection with this course, students may arrange for extra laboratory hours to be spent in the practice of electro-chemical methods of analysis.

5. Organic Chemistry I.—Three hours lecture and recitations, four hours laboratory a week for one year. Required in Science and Premedical courses. Optional in Arts course. Preparation: Chemistry 1 (minimum).

A course in which the general principles and theories of organic chemistry, the method of preparation and the characteristic reactions of the more important straight chain

and cyclic compounds, such as hydrocarbons, alcohols, phenols, ethers and amines and their related nitrogen compounds are treated in great detail. The lectures are fully illustrated by experiments. In the laboratory the student becomes familiar with the operations and apparatus involved in organic work, such as fractional distillation, extraction crystallization, steam distillation, determination of melting and boiling points, and the like; and with various general methods of preparation, such as etherification, saponification, nitration, sulphonation, reduction and oxidization, diazotization, etc. He prepares in all from twenty to thirty compounds, including products of synthetic and commercial interest. The instruction in this course also includes qualitative tests for all the important elements occurring in organic compounds, and quantitative determinations of carbon, hydrogen, nitrogen and the halogens.

6. Physical Chemistry.—Lectures, recitations and laboratory four hours a week for one year.

Among the subjects discussed are the following: Molecular and atomic weight determinations, the laws of gases, laws of liquids, solutions, vapor pressure laws, solutions of ionized substances, conductance, thermo-chemistry, including heats of reaction and of formation, chemical equilibria, including theory of indicators, rate of reaction. Throughout the course, the application of principles to problems will be emphasized. So far as possible, the laboratory work will be quantitative and designed to show the applications of the laws of Physical Chemistry.

Chemistry E I.—General Inorganic Chemistry. Lectures, recitations and demonstration. Credits, 3.

Section I.—4:30-5:45, Tuesday and Thursday.

Section II.—7:30-8:45, Wednesday and Friday.

Chemistry E II.—Laboratory work in General Inorganic Chemistry. Two hours or four hours per week. Credits, 1 or 2.

Section I.—Afternoons, by appointment, 4-6.

Section II.—Evenings, by appointment, 7:30-9:30.

Chemistry E III.—Qualitative Analysis. Four hours lecture and laboratory. Credits, 3 hours per term.

Section I.—Afternoons, by appointment, 4-6.

Section II.—Evenings, by appointment, 7-9:30.

Chemistry E IV.—Organic Chemistry. Lectures and recitations. Credits, 3 hours per term.

Section I.—4:30-5:45, Tuesday and Thursday.

Section II.—7:30-8:45, Wednesday and Friday.

Chemistry E V.—Organic Chemistry. Laboratory. Two or four hours per week. Credit hours, 1 or 2 per term. Sections and hours as in Chemistry E II.

Chemistry E VI.—Elementary Quantitative Analysis. Credits, 3 or 4 hours per term. Hours by appointment.

Chemistry E VII.—Advanced Quantitative Analysis. Credits and hours as in Chemistry E VI.

Chemistry E VIII.—Physical Chemistry.

For explanation of this course, see Chemistry 6, regular catalogue. Hours by appointment.

Chemistry E IX.—Iron and Steel Metallurgy. Two hours lecture and two hours laboratory per week.

Lectures: Monday, 7:30-8:45 P. M.; Saturday, 1:30-2:45 P. M.

Laboratory: Saturday, 2:45-4:45 P. M.

Additional laboratory hours by appointment.

Included in this course will be more or less extended treatment of the following subjects: Elements commonly present in steel, and effect of varying percentages of these elements on properties of the steel; acid and basic open hearth steel making; Bessemer steel manufacture; duplex steel making; pig-iron manufacture. Both open hearth and blast furnace slags will be discussed with the idea of showing their influence respectively on the quality of the steel and the pig-iron. Problems will be given out to illustrate the metallurgical principles discussed in the lectures. The laboratory work will consist of carefully selected metallurgical analyses.

A requirement for admission to this course will be an elementary course in general chemistry.

Chemistry, S. 1-2—General Inorganic Chemistry, Part I, 1 hour lecture and 2 hours' laboratory work daily—4 credits.

Chemistry, S. 3-4.—General Inorganic Chemistry, Part II (presupposes S. 1 and S. 2). 1 hour lecture and 2 hours' laboratory work daily—4 credits.

Chemistry, S. 5-6.—Organic Chemistry, Part I (presupposes a knowledge of General Inorganic Chemistry). 1 hour lecture and 2 hours' laboratory work daily—4 credits.

Chemistry, S. 7-8.—Organic Chemistry, Part II. Chemistry S. 5 and S. 6 are presupposed. 1 hour lecture and 2 hours' laboratory work daily—4 credits.

Chemistry, S. 9-10.—Qualitative Analysis, 1 hour lecture and 4 hours' laboratory work daily—6 credits.

Chemistry, S. 11.—Quantitative Analysis, 1 hour lecture and 5 hours' laboratory work daily—6 credits.

Postgraduate Courses in Chemistry.

7. Quantitative Analysis II.
8. Organic Chemistry II.
9. History of Chemistry.
10. Chemistry Seminar.

7. Quantitative Analysis II.—Lectures and laboratory, two hours a week for one year. Required in M. S. course. Substitutes, Chemistry 8, 9. Optional in B. S. sen. Preparation: Chemistry 2, 4, 5.

This course is an extension of Chemistry 5. It is assumed that the student is perfectly familiar with the use of the balance, the principles of volumetric analysis, and stoichiometry and no attempt is made to enlarge upon these subjects. The course, which comprises mainly laboratory work, is intended chiefly to train the student in manipulation. After some preliminary advanced mineral analysis such as the determination of Silica in Silicates, of Potassium and Sodium in Silicates, analysis of Spathic Iron ore, iodometric determination of Copper, and proximate analysis of Coal; the important principles of metallurgical analysis are considered. The sampling and chemical analysis of Iron and Steel, especially the different practical methods actually in use at the various industrial laboratories, are studied and practiced. Under sampling are considered: The importance of proper Sampling, Treatment of polished specimens, Metallographic characteristics of the constituents occurring in iron and steel, the causes of local differences in the chemical composition of Iron and Steel, Conditions which make the taking of representative samples difficult, white iron, gray iron, ingot iron and mild steel, wrought iron, sampling in special cases. Under analysis of iron and steel are considered: Determinations of Carbon, Silicon, Manganese, Phosphorus, Arsenic, Sulphur, Copper, Nickel, Cobalt, Chromium, Alum-

inum, Titanium, Tungsten, Vanadium, Molybdenum, Oxygen and Nitrogen. In many cases the student is offered a choice of method where the principle differs as it is desirable that the student should acquaint himself with each method. This course is not given with the idea of producing specialists along this line, but it is used as an example of the development of rapid, accurate processes for the control of commercial products.

8. Organic Chemistry II.—Lectures and laboratory, two hours a week for one year. Required in M. S. course. Substitutes, Chemistry, 7, 9. Preparation: Chemistry, 2, 6.

This course is an extension of Chemistry 6. In this course is developed more particularly the connection between structural relations and physical properties, dynamic isomerism, steric hindrance, energy relations in the organic field, and a detailed study of the more important classical synthesis. The facilities of the well-equipped Organic Laboratory of the College are open to properly qualified students for either research work or work in the preparation and reactions of special classes of organic compounds. The kind and amount of work will be varied to meet individual requirements.

9. History of Chemistry.—Preparation: Lectures, two hours a week for one term. Optional in M. S. course.

A detailed study of the history of chemical science, starting with its crude beginnings and following the development step by step through the alchemistic, iatro and phlogiston periods. In this course historical development of the important theories of Chemistry is also considered. The treatment of the entire subject is carried out along the "cause and effect" historical method, though special attention is given to the life and work of the men who have materially advanced the science by their investigations and work. At the completion of the course an essay based on the study of some important period (or classical memor) in the history of Chemistry is demanded.

10. Chemistry Seminar.—Weekly meetings throughout the second term. Required in M. S. course.

The object of these conferences is to bring into closer connection and harmony the functions of ultimate and proximate causes as developed in Philosophy and Chemistry respectively, philosophical theories on the Constitution of Matter—Atomic, Dynamic, Hylomorphic—are considered in the light of the very latest theories and discoveries of modern

chemistry. Among the particular topics treated may be mentioned the following:

The objective significance of bonds or links as displayed in Organic structural formulae.

Hylomorphism and the Theory of Electrons.

Philosophical significance of Moseley's Atomic Numbers.

Dependence of properties on energy content rather than on Atomic Weight. Illustrated by the changes in character in the atom of Manganese with gain or loss of electrons.

Allotropy; Isomorphism; Isomerism; Characteristic Spectra, etc., etc.

Students are required to prepare and present an original thesis embodying a philosophical criticism of some recent but well tested chemical theory.

ECONOMICS

Economics, S. 1.—Principles of Political Economy—2 credits.

EDUCATION

This elective, offered primarily but not exclusively, to students who wish to qualify themselves for the New York State Regents' College Graduate Certificate, is so arranged that the students electing Pedagogy during their Senior and Junior years may take those subjects in education not already included in the prescribed courses of philosophy so as to fulfill the Regents' requirements for the above mentioned certificate.

As a thorough course in general psychology is required for all Baccalaureate degrees given in this college, the elective course in pedagogy is arranged to provide the additional subjects of the Regents' requirements. In accord with the educational traditions of the Society of Jesus, in the course of Pedagogy at Canisius, especial emphasis will be placed upon the following psychological aspects of education: Training of the imagination; Formation of judgment and of character; Moral Training. The course is distributed through the Junior and Senior years. Opportunities for observation will be provided in Canisius High School and in any of the parochial and public schools of the city that the students may choose. Further inquiries regarding this course should be made of the Dean. The course is registered by the Regents as fulfilling the conditions for an approved department of education. The preparation which will be required for a graduate certificate, is represented by the following courses:

(a) **Psychology, General and Educational.**—Philosophy 1, 2, 5.

(b) **Principles and Method.**—Four hours a week for one year.

(c) **History of Education.**—In the courses of General History the following topics are treated at considerable length: Education in the Middle Ages, Scholasticism and the Universities, The Renaissance, The Reformation and Counter-Reformation. Besides this, one hour a week for two years is devoted to the History of Education.

Education, E. 1.—Psychology, Tuesday and Thursday, 4:30-5:45. See Philosophy E I.

Education, E. 2.—History of Education, Tuesday and Thursday, 4:30-5:45. Three credits each term.

Education, E. 3.—Principles and Methods of Education, Monday and Wednesday, 4:30-5:45. Three credits each term.

Education, S. 1.—Educational Psychology, 2 credits.

ENGLISH LANGUAGE AND LITERATURE

1. English.—Three hours a week for one year in Freshman class.

(a) Precepts. Principles of literary criticism. Choice of words. Elegance, vigor and variety of expression. The orderly and logical development of thought. Prose, rhythm, style. Principles of narration, description and exposition. Nature of poetry. Poetic diction. Versification: The Epic. A comparative study of the *Odyssey*, *Aeneid* and *Paradise Lost*. Lyric poetry, its various kinds. (Connell, *A Study of Poetry*.)

(b) Authors: Prose—Newman, Ruskin, De Quincey, Hawthorne, Arnold (*Brewster's Studies in Structure and Style*). Poetry—Selections from Shelly, Wordsworth, Keats, Tennyson (*Palgrave's Golden Treasury*); Milton, *Paradise Lost*, I, II; Shakespeare, *Julius Cæsar*, *Midsummer Night's Dream*.

(c) Composition: One composition in prose or verse to be written each week outside of class. The nature of this composition work will be in keeping with the scope of the class work as outlined in the precepts given above.

(d) History of English Literature: Early English Literature. The Age of Chaucer. The Elizabethan Period. Shakespeare and his Contemporaries. (*Brooke's English Literature*.)

2. English.—Three hours a week for one year in Sophomore class.

(a) Precepts of Oratory. (Coppens, Oratorical Composition.)

(b) Rhetorical Analysis of Great Orations:

I Term—Burke, American Taxation or Bristol Election.

II Term—Burke, Conciliation with America.

Webster, Adams and Jefferson.

(c) Authors:

I Term—Shakespeare, Hamlet (analysis), King Lear (reading).

Burke, Speech to the Bristol Electors.

Webster, Bunker Hill.

Newman, Second Spring.

Palgrave, Golden Treasury.

II Term—Shakespeare, Macbeth (analysis).

Bradley, Oratorical Selections.

Stedman, American Poets.

(d) Composition: Oratorical. Exercises in the application of the precepts of rhetoric. Practice in the drawing of briefs.

(e) History of English Literature, from the death of Elizabeth to the Victorian Period (Brooke's English Literature, cc. X-V).

3. English.—Three hours a week for one year in Junior class of Science course.

(a) Precepts—The Drama. Laws and Technique

(b) Authors—Shakespeare's Plays. Interpretation, Critical and Comparative Study.

(c) Composition. One composition every week or fortnight. Essays, Critical and Philosophical.

4. English.—Journalism I. The Modern Newspaper; its functions and make-up; news and news-values; the gathering and writing of news; the structure and style of news stories; copy-editing and proof-reading.

5. English.—Journalism II. Three hours a week for one year.

Newspaper Editing: copy-reading, copy-editing, proof-reading. Head-line writing. Newspaper make-up.

Editorial and feature writing: Editorial interpretation and comment. Editorial purposes. Material for editorials. Style of editorials. The editorial page. The field for special articles. Subjects and material types of articles. Structure and style.

English, E. I.—Journalism I—The Modern Newspaper; its functions and make-up; news and news-values; the gathering and writing of news; the structure and style of news stories; copy-editing and proof-reading. Wednesday and Friday, 7:30-8:45. Three credits each term.

N. B.—This course will include special lectures by prominent newspaper men.

English, E. II.—Oratorical Composition—the arrangement and writing of a speech. A course highly recommended to lawyers and all professional and business men. Monday and Wednesday, 7:30-8:45. Three credit hours per term.

English, E. IV.—Practical work of College grade in English composition. Wednesday and Friday, 4:30-5:45. Three credits each term.

English, E. V.—(a) The Short Story; its history, materials, theme, plot, etc. (b) Shakespeare; Merchant of Venice; Macbeth. Saturday, 1:30-4:00. Three credits each term.

EVIDENCES OF RELIGION

1. Evidences of Religion.—Freshman Year. One hour and one-half a week.

First Term—Eschatology. Christian Morality. The Theological Virtues: Faith, Hope and Charity. (Wilmers, pp. 385-436).

Second Term—The Virtue of Religion. Divine Worship. Christian Duties. Christian Perfection. (Wilmers, pp. 436-494).

2. Evidences of Religion.—Sophomore Year. One hour and one-half a week.

First Term—Grace. The Sacraments in General. Baptism. Confirmation. The Holy Eucharist. (Wilmers, pp. 279-341).

Second Term—The Mass. Penance. Extreme Unction. Holy Orders. Matrimony. The Church as a Means of Salvation. (Wilmers, pp. 341-385).

3. Evidences of Religion.—Junior Year. One hour and one-half a week.

First Term—Revelation, Natural and Supernatural, Miracles and Prophecies. The Primitive, Patriarchal and

Mosaic Revelation. The Christian Revelation. The Institution and End of the Church. (Wilmers, pp. 1-77).

Second Term—The Constitution of the Church. St. Peter given the Primacy not only of honor, but also of jurisdiction. The Pope, the successor of St. Peter. The Infallibility of the Pope. The Marks of the Church. The teaching office of the Church. Sources of the Church's teaching: Holy Scripture. Tradition. The Rule of Faith. (Wilmers, pp. 77-152).

4. Evidences of Religion.—Senior Year. One hour and one-half a week.

First Term—The Existence and the Nature of God. The Divine Attributes. The Unity of God. The Blessed Trinity. The Creation of the World. (Wilmers, pp. 152-219).

Second Term—Creation and Fall of Man. The Incarnation. The Redemption. (Wilmers, pp. 219-279).

FILING

Filing E I.—Indexing, filing and cataloging as applied to business. Lectures and practice. Wednesday, 7:30-9:30. Two credits per term.

FRENCH

French I.—Intended for beginners and conducted almost entirely according to the Direct Method. Aim is to teach pupil to speak French clearly and fluently and to grasp the essentials of grammar necessary to the expression of ideas.

Text—"France" by Camerlynck.

Reader—Lavisse's *Histoire de France*.

French II.—Review of regular verbs. Reflexive neuter, impersonal verbs, syntax, corresponding exercises in composition. French conversation based on the text is conducted throughout the course. Exercises in letter-writing.

Grammar—Chardenal.

Reading—Halèvy, "L'Abbé Constantin"; Molière, "Le Bourgeois Gentilhomme"; Van Buren, "Contes du Pays de Merlin"; Daudet, "Chois de Contes."

French III.—Review of irregular verbs and syntax; French Composition.

Text—Carnahan's Review Grammar and Composition Book.

Reading and criticism of:

Merimée-Colomba.

Molière-L'Avare.

Baumarchais-Barbier de Seville.

Conversation—based on text.

French IV.—1. Histoire de la Littérature Française. (Duval-Heath).

(a) First Term—The 17th Century.

(b) Second Term—The 18th Century.

2. Reading and literary criticism of two or more of the following:

(a) Racine—Athalie, Esther.

(b) Corneille—Le Cid, Polyeucte.

(c) Rostand—Cyrano de Bergerac.

3. Composition—Original critiques of authors studied.

French E I.—Intermediate French. Wednesday and Friday, 4:30-5:45. Three credit hours each term.

French E II.—Elementary lessons in French Grammar and Reading. Tuesday and Thursday, 7:30-8:45. Three credits each term.

French E III.—Advanced French Course, 1921-1922. Hours by appointment.

I. History of French Literature, from Chateaubriand to the present day.

References—Duval, Lanson, Konta, Wright.

II. French Prose of the Nineteenth Century.

1. Reading and Study of:

About—Le Roi des Montagnes.

France—Le Crime de Sylvestre Bonnard.

Merimée—Colomba.

2. Home reading of at least two of the following:

Bazin—Le Blé qui lève.

de Bernard—L'Anneau d'Argent.

Chateaubriand—Le Dernier des Abencerrages

Daudet—Tartarin de Tarascon.

Dumas—Comte de Monte Cristo.

Loti—Pêcheur d'Islande.

Malot—Sans Famille.

Sand, G.—La Mare au Diable.

French E IV.—Post-graduate course. Hours by appointment.**I. Histoire de la Littérature Française:**

(Duvall—Heath)

1. First Term—The 17th Century.
2. Second Term—The 18th Century.
Questions to be answered in French.

II. Authors:

1. Corneille. (a) Le Cid
(b) Horace
(c) Polyeucte
2. Molière. (a) L'Avare
(b) Le Bourgeois Gentilhomme
(c) Le Malade Imaginaire
(d) Les Femmes Savantes
(e) Les Précieuses Ridicules
3. Racine. (a) Athalie
(b) Esther
(c) Phèdre
(d) Andromaque
(e) Britannicus
(f) Iphigénie
4. Bazin. Le Blé qui lève
5. La Biche et Martin. (a) La Poudre aux Yeux
(b) Le Voyage de M. Perrichon
6. Halèvy. L'Abbé Constantin
7. Merimée. Colomba
8. Rostand. Cyrano de Bergerac
9. Contes Français. (Holt)
10. Longer French Poems. (Holt)

III. The Examination will include:

1. At least six of the foregoing works.
2. Translation into English.
3. French Composition based on the French Text.
4. Questions in grammar, philosophy and erudition.
5. Critical questions on the French drama.
6. Comparison of the classical dramatists with the modern.
7. Brief answers to be given orally in French.
8. Evidence that the candidate can understand easy French conversation.

French, S. 1.—Elementary lessons in French grammar and reading. The article, noun, pronoun, adjective, auxiliary verbs, regular conjugations, corresponding exercises in composition—2 credits.

French, S. 2.—Intermediate French. Review of regular verbs. Reflexive neuter, impersonal verbs, syntax, corresponding exercises in composition. Exercises in letter-writing—2 credits.

French, S. 3.—Advanced French—2 credits.

GEOGRAPHY

Geography, S. 1.—A study of the natural resources of the United States, soils, forests, minerals and waters; the complete dependence of the nation's industries upon them, and the efficient use of these resources that they may serve the greatest number of people for the longest time. The course includes the study of the need for reducing soil waste, supplying fertilizers for worn-out soil, reclaiming swamp and arid lands, increasing agricultural production and conserving mineral fuels and metals, and of the methods of attaining these results. The course further deals with problems of forest protection, water supply, control of water power, and the use of inland waterways. The course helps to establish principles of good citizenship. One hour daily; two credits.

Geography, S. 2.—Physical Geography or Physiography. A study of the work which wind, waves, rivers, glaciers, volcanoes, and earth movements have done and are doing to shape the earth's surface. This study explains the origin of hills and valleys, of plains, plateaus and mountains, of continents and ocean basins, and makes clear the ways in which these surface features have affected man's life on the earth.

Some of the subjects to be discussed are:

The Grand Canyon of the Colorado. A study of young rivers.

The Mississippi River. A study of mature rivers.

The Shenandoah River. A study of river capture.

The Potomac River. A study of rejuvenated and drowned rivers.

The valleys of Switzerland. A study of alpine glaciation.

The northeastern United States. A study of continental glaciation.

The New Jersey and Texas Coasts. A study of shorelines of elevation.

The New England Coast. A study of shorelines of depression.

The Mohave and Sahara deserts. A study of wind action.

The Colorado Plateau Province. A study of plains and plateaus.

The Basin Ranges. A study of block mountains.

The Black Hills. A study of dome mountains. The Appalachian ridges. A study of folded mountains.

The Rocky Mountains. A study of complex mountains.

Mount Shasta and Lassen Peak. A study of volcanoes.

The California coast. A study of earthquakes.

The Yellowstone National Park. A study of volcanic plateaus and geysers and hot-spring phenomena.

Two hours daily; four credits.

GEOLOGY

Geology.—Three hours a week for one term.

Physiographic: general features of the earth's surface.

Structural: constitution of rocks, terrains, classification of the Animal and Vegetable Kingdoms. **Dynamic:** The formative, protective and destructive effects of life, chemical action of air and water, mechanical effects of air and water, sources and effects of heat, crustal movements. **Historic:** Archæan, Paleozoic, Mesozoic, Cenozoic.

GERMAN

German 1.—For beginners. Three hours a week.

During this course the elements of German grammar will be covered.

German 2.—Intermediate German. Three hours a week. Prerequisite German 1 or equivalent.

This course is adapted to comply with regulations for premedical students. Special scientific subjects will be treated and special work will be assigned to enable students to translate and understand articles treating on scientific topics.

Text-book: Bacon, "German Composition."

Rapid review of strong verbs—prepositions governing two cases. Inverted and transposed order. Prefixes. Use of tenses. Formation of Words—Compound Words—Participial Construction. Composition and discussion on scientific subjects known to the students.

German 3.—Reading in German Literature. Two hours a week (credit for three hours).

Prerequisite German 2 or equivalent.

Extensive side reading is required.

During the first term stress is laid on free use of language, oral and written composition from classics.

Each student will have special work assigned and is required to give a good synopsis in German.

During the second term, a brief survey in German literature will be given.

German 4.—History of German Literature. First term: The early period till Reformation. Second term: Reformation till modern times. Considerable amount of side reading required. Two lectures a week; 3 credits per term.

German 5.—Scientific German I. Two hours a week (credit for three hours).

Prerequisites: 2 years of German. Oral and written compositions on scientific subjects. Recommended to all science students.

German 6.—Scientific German II. Two hours a week (credit for three hours). Reading and translation of scientific articles. Special attention given to chemical German. Scientific terminology of Chemical German. Recommended to chemists and science students.

German E I.—Intermediate German. Wednesday and Friday, 4:30-5:45. Three credits each term.

German E II.—Readings from German Literature. Tuesday and Thursday, 7:30-8:45. Three credits each term.

German, S. 1.—Intermediate German. Rapid review of strong verbs—prepositions governing two cases. Inverted and transposed order. Prefixes. Use of tenses. Formation of words—compound words—participial construction. Composition and discussion on scientific subjects known to the students—2 credits.

German, S. 2.—Readings from German Literature—2 credits.

GREEK

I. Greek.—Three hours a week for one year.*

1. Grammar—Review of Greek moods and tenses.

Prosody and versification for the structure of epic and tragic verse.

2. Authors: Plato, Apology; Homer, Odyssey; Herodotus, (selections for sight reading); Demosthenes, Olynthiacs; Euripides, Hecuba; Herodotus, (selections for sight reading).

3. Composition—Written exercises once a week, in imitation of Plato and Demosthenes.

II. Greek.—Three hours a week for one year.*

1. Authors: Demosthenes, First Philippic; or Æschylus, Prometheus Bound; Sophocles, Œdipus Tyrannus; Thucydides, Book II (selections); Demosthenes, De Corona; Thucydides, Book II (continued).

2. Composition—Written exercise once a week.

Greek, S. 1.—Elementary lessons in Greek Grammar and Reading—2 credits.

Greek, S. 2.—Xenophon's Anabasis—2 credits.

Greek, S. 3.—Literary art of the Greeks—2 credits.

HISTORY

1. **General European History.**—Two hours a week for one year.

The first Teutonic invasions. The fall of the Western Empire. The kingdoms of the Franks, Ostrogoths and Lombards. The Arabians. The establishment of the Papal States. Church and State. Carolingians, Northmen, Norman exodus. Lay investiture. Crusades. (Guggenberger's General History, Vol. I.)

2. **General European History.**—Two hours a week for one year.

The Protestant Revolt; The Great Western Schism, The Hundred Years' War, Wars of the Roses, Consolidation of the European Monarchies. The Reformation in Germany, in England and Scotland. The Catholic Revival. The wars of the Reformation; Huguenot Wars, Mary and Elizabeth, The Thirty Years' War, the Puritan revolt. Age of Louis XIV. (Guggenberger, Vol. II.)

*NOTE.—Credit is given for three hours a week, though five hours of actual time are devoted to the study of Greek. According to the Jesuit System, two hours of this time are given to conference with the individual students, to repetitions, quizzes and correction of exercises.

3. General European History.—Two hours a week for one year.

Causes of the Social Revolution: The Hanoverian Succession, Making of Russia, Wars of the Austrian Succession, The American Colonies, Seven Years' War, Division of Poland. American War of Independence. The French Revolution. Era of Napoleon I. Catholic Emancipation. European Revolution. (Guggenberger, Vol. III.)

History E I.—The period of the Renaissance, Tuesday and Thursday, 4:30-5:45. Three credits each term.

History E II.—History of Education.

History, S. 1.—European History from Charlemagne—2 credits.

History, S. 2.—American History—2 credits.

History, S. 3.—A course in Civics with special reference to needs of New York State Teachers—2 credits.

HISTORY OF PHILOSOPHY

History of Philosophy.—Senior Year. Two hours a week.

First Term: Oriental Philosophy: The Sacred Books of the Chinese. The Vedas and other productions of Indian Literature. The Philosophy of Vedanta, of Samkhya and Yoga, of Nyaya and Vaishesika. Philosophical Theories of Egypt and of Western Asia.

Greek Philosophy: The Ionic School. The Eleatics. The Sophists. Socrates and the Socrates Schools. Plato. Aristotle. The Epicureans. The Stoics. The Sceptics.

Catholic Philosophy: The Gnostics. The Neo-Platonists. The Fathers of the Church.

Scholastic Philosophy: Boethius, St. John of Damascus. Erigena. Avicenna. Averroes. Alexander of Hales. St. Bonaventure. Albertus Magnus. St. Thomas Aquinas. Roger Bacon. Duns Scotus. Raymundus Lullus. William of Cusa. The Mystics. The Revival of Platonism, of Aristotelianism. The Secular Philosophers. The Political Philosophers.

Second Term: Modern Philosophy: Descartes and His Followers. Malebranche. Spinoza. Bayle. Cudworth. Locke. Hume. Condillac. Helvetius. Voltaire. The En-

cyclopaedists. Leibnitz. Wolff. Berkeley. Rousseau. The Scottish School. The Transcendentalists: Kant, Fichte, Schelling, and their Schools of Thought. Herbart and Schopenhauer, Krause and Hegel. The Non-Kantians. Von Hartmann. Trendelenburg. Lotze. Current Philosophical Theories. Neo-Scholastics. Thomistic Philosophy under Leo XIII.

ITALIAN

Italian E I.—Introduction to the Italian Language. The purpose of this course is to provide an elementary knowledge of Italian for the study of Dante; but the course may be taken independently of such purpose. A course in Dante will be given during the second semester. Tuesday and Thursday, 7:30-8:45. Three credits.

LATIN

I.—Latin.—Three hours a week for one year.*

1. Authors: Virgil, Aeneid; Horace, Arts Poetica; Cicero, Pro Archia; Livy, selections for translation and sight reading; Horace, Odes (selected); Cicero, Pro Marcello, Second Philippic or De Signis; Livy, (as above).

2. Composition—Principles of Latin style. Latin prosody and versification with special reference to Latin lyric metres. Prose composition twice a week; verse once a week.

II. Latin.—Three hours a week for one year.*

1. Authors: Cicero, Pro Lege Manilia; Horace, Epodes, Satires, Epistles (selected); Tacitus, Agricola or Germania; Cicero, Pro Milone, Pro Ligario; Juvenal, Satires (selected); Tacitus, Annals, Book I.

2. Composition: Oratorical prose composition and occasionally an exercise in Latin verse.

Latin E I.—Selected parts from Cicero, with lessons in Etymology and Syntax. Monday and Wednesday, 4:30-5:45. Three credit hours each term.

Latin E II.—Advanced course in Virgil. Saturday, 9:00-12:00 (with recess). Three credit hours each term.

Latin E III.—Elementary Latin Composition. Tuesday and Thursday, 4:30-5:45. Three credit hours each term.

*NOTE.—Credit is given for three hours a week, though seven or eight hours a week are given to the study of Latin. Four or five hours weekly are given to conferences with the individual students, to repetitions, quizzes and correction of exercises.

Latin E IV.—Advanced Latin Composition. Friday, 4:20-6:00. Two credits.

Latin E V.—Intermediate Latin Composition. Tuesday and Thursday, 4:30-5:45. Three credits each term.

Latin, S. 1.—Elementary Latin. A rapid review course of the first year Latin.

Latin, S. 2.—Cæsar. A rapid review course in the chapters of Cæsar required by the Regents for High School.

Latin, S. 3.—Latin for beginners. A course for those who desire to take up Latin from the very beginning.

Latin, S. 4.—Cæsar. A course for those who desire to begin their reading of Cæsar towards the fulfillment of College Entrance requirements.

Latin, S. 5.—Latin Syntax and Composition. A thorough explanation of the principles of Latin Syntax and practice—2 credits.

Latin, S. 6.—Cicero and Virgil—2 credits.

Latin, S. 7.—Cicero's Pro Milone—2 credits.

Latin, S. 8.—Catalinarian speeches—2 credits.

ELEMENTARY LAW

Law in General, Its Nature and Origin.—The moral obligation of law, its source and limitations. The legislative power, its subject and exercise.

The Civil Law of Rome.—Common Law and Equity in England. Methods and procedure. Their modifications in the United States. The code. Civil and criminal law.

The Right of Private Property.—Estates in real property. Real estates in real property and personal estates in real property. Title by gift and by contract. Agency. Partnership.

Private Wrongs.—Proceedings in an action at law. Evidence. Equitable remedies. Crimes. Degrees of Crime. Relation of criminal actor to criminal act. Criminal procedure. Nature and function of a State. Subjects and their relations to the State. Text-book: Robinson, Elementary Law.

One hour a week for a year, obligatory in Senior of A. B. and B. S. courses. Four additional hours every week, open to students who intend to take up the study of law after graduation.

MATHEMATICS

1. Mathematics.—Four hours a week for one term.

Plane Trigonometry with its application to practical Surveying and Elementary Navigation. (Wentworth.)

2. Mathematics.—Four hours a week for one term.

Analytical Geometry, loci and equations, the straight line, the circle, parabola, ellipse, hyperbola; general discussion of the equation of the second degree.

3. Mathematics.—Four hours a week for one year.

(a) Spherical Trigonometry.

(b) Calculus: Integral and Differential.

Mathematics E I.—Intermediate Algebra. Tuesday and Thursday, 4:30-5:45. Three credits each term.

Mathematics E II.—Advanced Algebra. Monday and Wednesday, 7:30-8:45. Three credits.

Mathematics E III.—Trigonometry. Saturday, 9:30-12:00. Three credits.

Mathematics E IV.—Trigonometry. Tuesday and Thursday, 7:30-8:45. Three credits.

Algebra, S. 1.—A rapid review course in Elementary Algebra—2 credits.

Algebra, S. 2.—A rapid review course in Intermediate Algebra—2 credits.

Plane Geometry, S. 4.—A rapid review course—2 credits.

Trigonometry, S. 6.—2 credits.

Algebra, S. 7.—Advanced Algebra—2 credits.

Analytical Geometry, S. 8.—2 credits.

Calculus, S. 9.—Differential—2 credits.

MECHANICAL DRAWING

Mechanical Drawing; Descriptive Geometry.—Hours to be arranged with the professor.

The following course is a most desirable one for B. S. students and those preparing for Technical Institutes. It embraces a knowledge of the elements of mechanical drawing and descriptive geometry and their application. The course requires three years for its completion. The subjects treated are:

1 Year: Use and Care of Instruments, Applied Geometry, Lettering, Orthographical Projection, Developed Surfaces and Intersections, Pictorial Representation, Working Drawings.

2 Year: Descriptive Geometry, Technical Sketching, Map and Topographical Drawing, Duplication and Drawing for Reproduction, Notes on Commercial Practice, Elements of Machine Design.

3 Year: Principles of Applied Mechanics, Structural Drawing, Drafting-room Practice in Plane and Topographical Surveying.

Text and Reference Books: Engineering Drawing, French; Descriptive Geometry, Blassing and Darling; Plane Surveying, Phillips; Mechanism, Dunkerley.

MUSIC

Music, S. I.—Normal work on the course given to children in the First Year.

First Year: During this year there are daily exercises in placing the voice and in focusing the note in order to obtain a pure quality. The intervals studied are those of the major scale, the tonic and dominant chords and their inversions. The natural movement or tendencies of the tones are emphasized as a preparation for the study of harmony. The ear is trained through musical dictation on the same intervals. The children are taught to observe the construction of phrases—repetitions, imitations, etc.—and to improvise phrases of their own. They are given daily rhythmic exercises in 2-4 and 3-4 time. Numerical notation is used throughout. Towards its close the children are introduced to staff notation with the C clef—1 hour daily; 2 credits.

Music, S. II.—Second Year: The vocal exercises carry the placing of the voice through all the vowel sounds and further cultivate their vocal quality. The intervals studied are those of the minor scale developed from its relation to the major, the three principal major chords and the three principal minor chords with their inversions, also thirds, fourths and fifths. The ear training covers these same intervals. The study of musical form is continued, emphasizing contrasts and likenesses, sequences, etc., and the children's compositions become more mature. In rhythm they study the divided beat, rests and syncopations. The numerical notation is used

throughout the year for the study of all new problems. Two new positions of the C clef on the staff are studied—1 hour daily; 2 credits.

Music, S. III.—Third Year: The vocal exercises continue the cultivation of a pure vocal quality and develop flexibility with crescendo and diminuendo, and breath control. All intervals, major and minor, augmented and diminished are studied during the year, also modulations into related keys and the chromatic scale. The children are encouraged to write original melodies. The numerical notation continues to be used for the study of all new problems. The staff is studied with C clef in three new positions and with the modern key signature. Toward the end of the year the children are made familiar with all the key signatures of modern music—1 hour daily; 2 credits.

PHILOSOPHY

1. Formal Logic or Dialectics.—One term, three hours a week.

Nature of Logic. Function and Value of Logic. Intellectual Perception; division of ideas and terms. Definition and division. Nature of judgment; judgment and proposition. Division of judgments and propositions. Proportion and its elements; types of judgment; negation. The reasoning process. Different forms and kinds of argumentation. Inference, its nature; what it implies concerning experience; method and inference; inference and system; deductive inferences; analysis and synthesis. Deduction, kinds and their values; syllogism and its laws and form. Rules of the simple categorical syllogism, conditional and disjunctive syllogism; dilemmas and fallacies. Induction; canons of induction; fallacies of induction.

2. Applied Logic. Logical Truth and Certainty.—One term, three hours a week.

Human certainty vindicated against skeptics. The three fundamental truths.

The sources of certainty: experience, internal (consciousness) and external (outer senses); Testimony of the senses. Perception and the interpretation of Sensation. Illusion and hallucinations. Historical testimony. Refutation of cosmic idealism. Nature and value of universal ideas. Concept, its nature and processes involved; function in the process of thinking. Reasoning as a means of knowledge. Induction and its basis. Objective evidence, the universal

criterion of truth. False criteria. Necessity and freedom of assent.

3. General Metaphysics, Ontology.—One term, three hours a week.

The concept of being. Analogy of being. Negation of being. Knowledge of essence possible. Possibility, intrinsic and extrinsic; the ultimate source of each. Attributes of being; Unity, truth, goodness.

The concepts of substance and accident; their division. Hypostasis and person. Quantity, quality, relation.

Principle and cause; divisions of cause; the principle of causality. Perfection of being. The finite and the infinite; the necessary and contingent. Order and beauty.

4. Cosmology.—One term, three hours a week.

Origin of the world. Materialism, Pantheism, Creation and age of the world. The laws of nature. Miracles. Constitution of bodies. The dynamic, atomic and hylomorphic theories compared.

5. Psychology.—One term, three hours a week.

(a) Empirical Psychology: Sensuous life. Nature of sensation. Properties of sensation, quality, intensity, duration. Physical, physiological, psychical changes in sensation. Cognitive character of sensation. Sensation and perception. Refutation of physiological idealism. Scholastic doctrine of sense perception. Development of sense perception. Education of the senses. Imagination. Memory. Sensuous appetency and movement.

(b) Rational Psychology: The human intellect; essentially different from sense; its spiritual nature; its operations. Origin of ideas; erroneous theories; scholastic doctrine. Judgment and reasoning. Attention and apperception. Development of intellectual cognition. Growth of the knowledge of self; unity, continuity, discontinuity of consciousness. Genesis of the ideas of substance, accident, cause, the infinite, pace, time.—Rational appetency. Habit. Character. Free-will and determinism. Emotions.—Nature of the human soul; its substantiality, simplicity and spirituality. Unicity of the soul. Immortality of the soul. Soul and body.

6. Natural Theology.—One term, three hours a week.

The existence of God demonstrated. Atheism.

The essence of God. His infinite perfection, simplicity, unity. Pantheism refuted. God's immutability, immensity, eternity.

The divine intellect and the divine will. The moral attributes of God. The power and providence of God. (For reference, Boedder's *Theologia Naturalis*.)

7. **Ethics.**—One year, three hours a week.

I. General Ethics: The moral agent and the moral act. The ultimate end of man. Refutation of Hedonism and Utilitarianism. The end of the present life.

Difference between moral good and evil. The true norm of morality; false theories. Virtue and vice; merit and demerit.

The natural law; its existence, its properties, its sanction. Refutation of Kant's categorical imperative. Positive law based on the natural law. Properties of positive law.

Conscience: its binding force; rules governing it. Rights; nature and division of rights; subject of rights.

II. Applied Ethics: (a) Individual rights and duties; to God, necessity of religion; to self, immortality of suicide; to others, charity and justice.

The right of freedom of conscience; of free self-culture; of self-defense.

(b) Right of private property. Modes of acquiring property. Communism. Socialism.

Sociology.—Society in general; nature and constituent elements of society; social activity.

(a) **The Family:** Divine institution, unity and indissolubility of marriage. Necessity of marriage—celibacy. Rights of duties of husband and wife. Emancipation of woman. The marriage contract; to what authority it is subject. Nature of parental society. The right and duty of parents to educate their children.

(b) Relation between master and servant. Slavery.

(c) **The State:** Origin of the State. False theories of Hobbes and Rousseau. The State, an institution of nature. Civil authority, not from the consent of men or a civil contract, but from God, the author of nature. The judicial relations which constitute the State established by the law of nature. The triple contract of Puffendorf.

The object of the state, not merely protection of rights, but the provision of all the means and conditions necessary for the perfect temporal well-being of all its citizens as far as they are not obtainable by private activity. State absolutism, absurd and immoral.

Families, the units of the State. Political equality of woman.

Municipalities. Classes. Estates.

The territory. Eminent domain.

Nature and essential properties of civil authority. The original subject in which it is vested. The different forms of government; their respective advantages and disadvantages. Constitutional and representative polity.

The limits of civil power. Duties and rights of the State with regard to moral and intellectual well-being. Public morality and religion. Relation between Church and State. Religious liberty. Rights of the State to educate, indirect and subsidiary only. The school question. Compulsory attendance at school.

Liberty of the press. Liberalism.

Duties and rights of the State with regard to material prosperity.

Legislative powers—duties of legislators; qualities of law. Administrative power—duties of civil officers. Judicial power—object of punishment; capital punishment.

Acquisition of civil power, legitimate and illegitimate. Usurpation—prescription of usurped power. Despotism of rulers and changes of governments. Resistance to civil authority.

(d) International Law: Existence of a natural international law; private and public. Particular rights and duties contained in it. Intervention. International treaties. Concordats. War—Defense and aggressive; conditions of its lawfulness. Nationalities—the family of nations. (Cathrein's *Philosophia Moralis*.)

(e) Special Questions: The social question. The social question and political economy. The social question and natural law. The social question and the State. Liberalism. Socialism. Single Tax. Social question and the Church. Christian democracy. Charitable institutions under the guidance of the Church. Christian trade unions. Catholic benevolent associations.

Philosophy E I.—Course in Rational Psychology. The human intellect; its spiritual nature; its operations. Judgment and reasoning. Attention and apperception. Development of intellectual cognition. Rational appetency. Habit. Character. Free-will and determinism. Emotions. Nature of the human soul. Immortality of

NOTE.—In all the courses of Philosophy mentioned above, credit is given for three hours a week. The students of the A. B. division spend about three hours more every week in philosophical disputations, discussions, quizzes and repetitions.

the soul. Soul and body. Tuesday and Thursday, 4:30-5:45. Three credit hours each term.

Philosophy E II.—1. Formal Logic or Dialectics. Nature of logic. Function and Value of Logic. Intellectual Perception; division of ideas and terms. Definition and division. Nature of judgment; judgment and proposition. Division of judgments and propositions. Proportion and its elements; types of judgment; negation. The reasoning process. Different forms and kinds of argumentation. Inference, its nature; what it implies concerning experience; method and inference; inference and system; deductive inferences; analysis and synthesis. Deduction, kinds and their values; syllogism and its laws and form. Rules of the simple categorical syllogism, conditional and disjunctive syllogism; dilemmas and fallacies. Induction; canons of induction; fallacies of induction.

2. Applied Logic. Logical Truth and Certainty. Human certainty vindicated against skeptics. The three fundamental truths.

The sources of certainty: experience, internal (consciousness) and external (outer senses); Testimony of the senses. Perception and the interpretation of Sensation. Illusion and hallucinations. Historical testimony. Refutation of cosmic idealism. Nature and value of universal ideas. Concept, its nature and processes involved; function in the process of thinking. Reasoning as a means of knowledge. Induction and its basis. Objective evidence, the universal criterion of truth. False criteria. Necessity and freedom of assent. Tuesday and Thursday, 7:30-8:45. Three credits each term.

Social Science E I.—1. Ethical basis of Social Service. Principles underlying all work in the fields of Social Service. Tuesday evening, 7:30-8:45.

2. Child Welfare Work. The first series of lectures ten in number, in special fields of Social Service, will be given by Miss Ada Ruth Burns, Secretary, Child Welfare Board, Erie County. Miss Burns will lecture on Child Welfare Agencies; history, purpose and administration of the various agencies devoted to Child Welfare. Experts in other particular fields of Social Service will lecture in the Second Term. The lectures by Miss Burns will be held at 7:30 every Thursday, beginning November

3rd. Each Thursday evening during the month of October, the Dean of the College will deliver lectures on the general principles of Sociology.

Three credits each term will be granted for the work in Social Science contained in Nos. 1 and 2 above.

Education, S. 1.—Educational Psychology—2 credits.

Philosophy, S. 2.—A course in applied Ethics—2 credits.

Philosophy, S. 3.—A special course in Logic—2 credits.

PHYSICS

Physics I.—(a) Lectures and recitations, two hours per week. Required in Sophomore Arts and Freshman Science.

A general course in the fundamentals of physics, comprising treatises on the mechanics of solids, the mechanics of fluids and wave motion. This course is intended to supply the ground work on which the subjects of sound, light, heat, magnetism and electricity are built up in the second year. A scientific method of thought is inculcated in the lectures, and precision of concept and expression are demanded in the recitation. The treatment of the matter is mathematical when branches no higher than trigonometry and analytical geometry are required by the problems. Lecture notes must be presented for approval each month.

Physics I.—(b) Laboratory, two hours per week. Required of Freshman Science.

A course complementary to Physics I (a), in which the theories and laws presented in the lectures are subjected to experiment. The work is, of course, quantitative and a numerical measure of the student's accuracy is required in each experiment. Much of the first term is taken up with measurements of the more simple types and with practice in the use of precision instruments such as the micrometer caliper, the micrometer microscope, optical lever, cathetometer, analytical balance, etc., while throughout the year the experimental work follows closely upon the lecture work. A few lectures are given in the beginning of the year on precision measurements. Special form reports are required for every experiment and in these careful records and accurate reduction of data are closely scrutinized.

The work includes such problems as the measurement of "g" by the falling fork method, the Kater pendulum,

demonstration of the laws of the composition and resolution of forces, tests on the modulus of elasticity in tension, torsion and flexure, determination of specific gravity by various methods, comparison of viscosities, cohesion and surface tension of liquids, etc.

Physics II.—(a) Lectures and recitations, three hours per week. Required in Junior Arts and Sophomore Science.

Sound, Light, Heat and Electricity are treated in this course with the same aims as those stated for Physics I (a). The lectures are visualized as much as possible by demonstration, lantern slide and motion picture, an unusually complete cabinet, a new cinematograph of the most modern type and a departmental motor generator set supplying all the necessary apparatus and power. In accord with the object of the B. S. course, the subject matter is treated from the viewpoint of pure science rather than of applied science, leaving the more technical phases to later specialized study.

Lecture notes must be presented for approval each month.

Physics II.—(b) Laboratory, four hours per week. Required of Sophomore Science.

This course has the same relation to Physics II (a) as Physics I (b) has to Physics I (a). The aims and the methods are the same, thus providing a complete, consistent course in experimental Physics.

The student, provided with apparatus of the latest design, is given the opportunity of studying the most up to date methods of physical measurement in the branches of sound, light, heat, magnetism and electricity. Special form reports are required for each experiment. Clear, precise records, together with accurate reduction of data, are the chief requisites for approval.

Physics II.—(c) Laboratory, four hours per week. Required of Junior Arts.

This course is a compendium of Physics I (b) and Physics II (b) comprising all the more fundamental and the more important experiments of both. The same methods are pursued aiming, however, at a general knowledge of physics measurement and providing opportunities for a shorter training in manipulation and quantitative study of physical phenomena.

Physics III.—Laboratory, five hours per week. Required of Junior Science.

For a deeper study of physical phenomena and a more detailed course in modern methods, including many of those now in use in commercial testing laboratories Physics III is offered. Light, Heat and Electrical measurements are chiefly insisted on, although a few determinations in the province of Mechanics and Sound are also presented.

Members of this course must have completed Physics I (b) and Physics II (b). The student is required to apply his previous knowledge and is initiated into research methods.

Physics IV.—Lectures and recitations, three hours per week. Laboratory, four hours per week. Required in the Premedical course.

A one year course of college grade in General Physics, arranged particularly for the members of the Premedical classes.

Physics E I.—A course in General Physics, Part I, including Mechanics, Hydrostatics, Sound.

Part II, including Heat, Light and Electricity, 1:30-3:45, Saturday. Three credits each term.

Physics E II.—Laboratory Physics. One credit each term. Saturday, 4:00-6:00.

Additional Laboratory hours by appointment.

Physics, S. 1-2.—A course in General Physics, Part I, including Mechanics, Hydrostatics, Sound; 1 hour lecture and 2 hours laboratory work daily—4 credits.

Physics, S. 3-4.—General Physics, Part II, including Heat, Light and Electricity; 1 hour lecture and 2 hours' laboratory work daily—4 credits.

SPANISH

Spanish I.—Elementary course, 3 hours per week for one year. Spanish pronunciation; useful vocabulary, the essentials of grammar and reading of about 100 to 200 pages of matter. Ear training and ability to converse and to think in Spanish emphasized.

Spanish II.—Intermediate Spanish, 3 hours per week for one year. Reading of 300 to 400 pages of Spanish text for appreciation and as basis for themes and discussions with systematic study of advanced grammar.

Spanish III.—Advanced Spanish, 3 hours per week for one year. Reading from standard Spanish authors and current periodicals. Also the Spanish of commerce, its vocabulary, forms and usages. Spanish commercial correspondence and business interviews.

Spanish E I.—Elementary Spanish. Monday and Wednesday,
7:30-8:45. Three credits.

Spanish E II.—Advanced Spanish. Tuesday and Thursday,
4:30-5:45. Three credits.

Spanish, S. 1.—Elementary course; Spanish pronunciation, useful vocabulary, conversation and reading. The essentials of grammar taught inductively, with drill on important matters—2 credits.

Spanish, S. 2.—Advanced Spanish grammar, reading and composition. Reading of selected Spanish texts for appreciation and as a basis for themes and discussions with systematic study of Spanish grammar—2 credits.

Fifty-first Annual Commencement
of
Canisius College

College Lawn, Monday Afternoon, June 13, 1921
at 3:30 o'clock

PROGRAM

The Right Rev. William Turner, D. D.,
Presiding

I

- Processional—Canisius College March.....*C. Mischka*
Class Poem:
 WILLIAM D. HASSETT
Oration—"Socialism and the Social Question"
 LOUIS A. PINGITORE
Oration—"The Church and the Social Question"
 RAYMOND J. BURKE
Intermezzo—Minuet *Mozart*

II

- Conferring of Degrees:
 REV. M. J. AHERN, S. J., President of Canisius College
Valedictory:
 JOSEPH A. BACH
Address to Graduates:
 T. A. DALY, LITT. D.
Recessional—Festival March *Mendelssohn*

Music by Canisius College Orchestra
REV. JOHN G. HACKER, S. J., Director

CLASS OF 1921

ORGANIZATION

- President*.....Joseph A. Bach
Vice-President.....John L. Neubert
Treasurer.....John E. Kelly
Secretary.....James T. Trainor

Degrees Conferred

Bachelor of Arts

Bach, Joseph A.	Heimerle, Herbert B. (<i>cum laude</i>)
Brace, William H. (<i>magna cum laude</i>)	Hoffmeyer, Norbert C.
Burke, Raymond J. (<i>cum laude</i>)	Kelly, John E.
Candee, Dean J.	Littlefield, Martin J.
Dunklin, Howard T.	Mahoney, Edward L.
Hassett, William D. (<i>magna cum laude</i>)	Manning, Leo J.
Healy, Vincent H.	Phillips, Martin G. (<i>cum laude</i>)
	Pingitore, Louis A. (<i>magna cum laude</i>)

Burke, Nellie E.	Hahn, Mary E.
Sister M. Francis	Halweis, Ellen Cecella
Sister M. Francis De Sales (<i>cum laude</i>)	Sister Marie Aimée (<i>magna cum laude</i>)
Greenough, Loretta M.	Navagh, Mary E.

Bachelor of Science

Adolf, Clemens W.	Neubert, John L. (<i>cum laude</i>)
Adolf, Elmer A.	Roes, Albert C.
Edel, Ervin B.	Weber, Bernard J.
Frey, Emil A.	
Missert, Alfred F.	
	Riester, Adele E. (<i>magna cum laude</i>)
Creahan, Nora F.	Steudle, Mary R. (<i>cum laude</i>)
Hanley, Mary A. (<i>magna cum laude</i>)	
Maeder, Naomi C.	
Mason, Agnes Irene (<i>magna cum laude</i>)	

Master of Arts

Conlin, Henry	O'Rourke, Cornelius
Doran, Maynard	
	Sister John Joseph
Sister M. Constantia	Sister Mary Laurence
Cross, Catherine	Sister M. Leonie
Desmond, Helen M. (<i>magna cum laude</i>)	Mahoney, Catherine M. (<i>cum laude</i>)
Howlett, Anna	Meyer, Florence C. (<i>cum laude</i>)
Sister Ida Marie	Mulroy, Adelaide
Sister M. Immaculata	
Sister M. Immaculate	

Master of Science

Kreciszewski, Alexander A.	Schmitt, Nicholas
McTigue, Austin	Sweeney, Leo. A.
Mercer, Nelson (<i>cum laude</i>)	

DEGREES CONFERRED

Wednesday, August 10th, 10 A. M.

Bachelor of Arts

Sister M. Joanna
(*cum laude*)

Erwin Glucksman

Sister M. Serafia

Bachelor of Science

Sister M. Ambrose
(*cum laude*)

Sister M. Gabriel
(*cum laude*)

Sister M. Blanca

Sister M. St. Leonard
Sister M. Roberta

Master of Science

Edward A. Brien

AWARD OF HONORS

- St. Thomas Aquinas Medal**, awarded to the member of the Senior Arts class, who is most proficient in Philosophy...William Hassett
- The St. Ann's Medal**, awarded to the member of the Junior Arts class, who has the highest class standing in Philosophy, Physics, Chemistry or BiologyWm. R. Sheridan
- Class Medals**—Gold medals are awarded annually to the students who attain the highest class standing in Sophomore and Freshman Arts and in Sophomore and Freshman Science:
- Sophomore ArtsEdward S. Schwegler
 Sophomore ScienceCharles G. Eustace
 Freshman Arts—AAnthony W. Stevens
 Freshman Arts—BJohn D. Naples
- The Suarez Medal**, awarded to the student in Senior Science class who shows most proficiency in Philosophy.....John L. Neubert
- St. Aloysius Medal**, awarded to the student in Junior Science class who has the highest class standing in Philosophy and ScienceHarry Stievater
- The Pasteur Medal**, awarded annually to the student in the second year of the Premedical Course, who has the highest standing in English and ScienceRonald Garvey
- The Canisius Alumni Sodality Medal**, awarded annually to the student who wins first place in the Oratorical Contest held in spring of each yearWilliam D. Hassett
- Twenty Dollars in Gold** for the best essay in History—subject, "The Influence of the Northmen on Civilization"—was awarded to Francis M. Dooley.
- Twenty Dollars in Gold** for the best essay in Physics—subject, "Time and its Measurements"—was awarded to Raymond Rung.
- Twenty Dollars in Gold** for the best essay in Chemistry—subject, "The Recovery of Gasoline from Natural Gas"—was awarded to Harry Stievater.
- Twenty Dollars in Gold** for the best essay in Biology—subject, "Double Fertilization of Flowering Plants"—was awarded to Joseph Nowak.
- Twenty Dollars in Gold** for the best essay in Philosophy—subject, "The Catholic Church and the Labor Question"—was awarded to Raymond J. Burke.
- Twenty Dollars in Gold** for the best essay in Astronomy and Geology—subject, "Erosion"—was awarded to John L. Neubert.
- The Valerian A. Ruskiewicz Memorial Prize of Fifty Dollars in Gold** for the member of the Senior class having the highest standing in Physics, was awarded to John L. Neubert.

TIME SCHEDULE

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.45	Philosophy Mathematics II Physics I Latin	Physical Chemistry Physics II Greek	Philosophy Physics I Mathematics II Latin	Evidences Physics II Latin	Philosophy General Chemistry I Latin	Astronomy English Speaking Philosophy (Pre-med.)
9.35	Philosophy Philosophy (Pre-med.)	History Philosophy II	Philosophy (Pre-med.)	Mathematics I Biology II	Mathematics I Physics IV	
9.40	Philosophy Latin Physics II Lab.	Philosophy Quan. Anal. General Chemistry I	Astronomy English Biology III Latin	Philosophy Latin Qual. Anal. Greek	History Philosophy Physics II Greek	Public Speaking Philosophy Evidences
10.30	General Chemistry II Biology I Physics IV	Latin Evidences Mathematics I	Philosophy (Pre-med.)	General Chemistry II Biology I Lab. Physics IV	General Chemistry II	
10.45	Organic Chemistry Evidences Greek	History Philosophy Philosophy Latin	Organic Chemistry History II English	Biology I Lab. English Physics II Lab. Evidences History I	Organic Chemistry History II English	Public Speaking Evidences Mechanical Drawing I Physics IV Lab. Latin
11.35	Physics II Lab. English	Qual. Anal. Mechanical Drawing I Greek				
11.40	English Quan. Anal. Greek	Biology I Lab. Physics IV Lab.	Organic Chemistry History II English	Biology I Lab. English Physics II Lab. Evidences History I	Organic Chemistry History II English	Public Speaking Evidences Mechanical Drawing I Physics IV Lab. Latin
12.30	Biology III Modern Language III	English Qual. Anal. Latin	Philosophy English Modern Language III Mathematics I Biology I	Physics II Lab. Physical Chem. Lab. English Modern Language I	Philosophy English Modern Language III Evidences	Public Speaking Mechanical Drawing Physics IV Lab. Latin English Qual. Anal.
12.55	Quan. Anal. Qual. Anal. Modern Language I	Mechanical Drawing Mathematics I	Quan. Anal. Mathematics I Modern Language I	Physical Chem. Lab. Mathematics II Modern Language II	Physical Chem. Lab. Modern Language II Mathematics I	Qual. Anal.
1.40		Mathematics II Modern Language II	Mathematics I Modern Language I	Physical Chem. Lab. Mathematics II Modern Language II	Physical Chem. Lab. Modern Language II Mathematics I	
1.45		Mathematics I Modern Language I	Mathematics I Modern Language I	Physical Chem. Lab. Mathematics II Modern Language II	Physical Chem. Lab. Physics II Lab. Mathematics I Biology II Lab.	
2.35	Organic Chem. Lab. Quan. Anal. Physics I Lab. Mathematics I	Biology III Lab. Physics III Lab. Mathematics I	Quan. Anal. Gen. Chem. II Lab. Mathematics I Biology II Lab.	Organic Chem. Lab. Physics III Lab. Biology III Lab. Mathematics I Chemistry II Lab.	Physical Chem. Lab. Physics II Lab. Mathematics I Biology II Lab.	
2.40	Organic Chem. Lab. Physics I Lab.	Biology III Lab. Physics III Lab.	Quan. Anal. Gen. Chem. II Lab. Biology II Lab.	Organic Chem. Lab. Physics III Lab. Biology III Lab. Mathematics I Chemistry II Lab.	Physical Chem. Lab. Physics II Lab. Mathematics I Biology II Lab.	
3.45				Organic Chem. Lab. Physics III Lab. General Chem. I Lab.	Physics II Lab. Biology II Lab.	

ALPHABETICAL LIST OF REGULAR STUDENTS

Antkowiak, Adalbert Stanley	21 Schutrum St., Buffalo, N. Y.
Barden, John Joseph.....	397 Broadway, Lowell, Mass.
Barr, Philip Jerome.....	1366 Broadway, Buffalo, N. Y.
Barr, William A.	1366 Broadway, Buffalo, N. Y.
Barten, Andrew Newell.....	150 Bryant St., Buffalo, N. Y.
Bartlett, Edward Clarence.....	10208 Anderson Ave., Cleveland, O.
Battaglia, Anthony C.	34 South Elmwood Ave., Buffalo, N. Y.
Berkery, Edward Thomas.....	92 Burgard Place, Buffalo, N. Y.
Biniszkiewicz, Edmond Anthony	177 Lovejoy St., Buffalo, N. Y.
Bird, Bernard	Buffalo, N. Y.
Birmingham, James Francis	428 East Eagle St., Buffalo, N. Y.
Bogan, Robert James	Waterville, N. Y.
Boone, Daniel K.	34 Roanoke Parkway, Buffalo, N. Y.
Borkowski, Ansley Bernard	72 Woltz Ave., Buffalo, N. Y.
Borkowski, Bronislaus Richard	72 Woltz Ave., Buffalo, N. Y.
Boroszewski, John Peter	960 Fillmore Ave., Buffalo, N. Y.
Bowen, Cornelius Joseph	1579 Jefferson Ave., Buffalo, N. Y.
Brady, Francis	2800 Main St., Buffalo, N. Y.
Brennan, James Francis	31 Hayden St., Buffalo, N. Y.
Brennan, Lawrence Patrick	193 West Utica St., Buffalo, N. Y.
Broderick, Joseph Vincent	573 Plymouth Ave., Buffalo, N. Y.
Brownjohn, George Murray	374 Breckenridge St., Buffalo, N. Y.
Brylski, Florian Stanislaus	150 Baitz Ave., Buffalo, N. Y.
Buchanan, George Joseph	73 Kingston St., Buffalo, N. Y.
Buchheit, Rudolph George	167 Indian Church Road, Buffalo, N. Y.
Burns, Henry Don	117 West Humboldt Parkway, Buffalo, N. Y.
Burns, James Francis	40 Kamper Ave., Buffalo, N. Y.
Burns, Robert Michael	621 Eagle St., Dunkirk, N. Y.
Burt, Russell Edward	48 Ada Place, Buffalo, N. Y.
Cain, Stephen Patrick	117 May St., Buffalo, N. Y.
Callanan, Matthew Joseph	1727 Main St., Buffalo, N. Y.
Campana, Humbert John	179 Woodlawn Ave., Buffalo, N. Y.
Candee, Cornelius Francis	594 South Park Ave., Buffalo, N. Y.
Canty, Edward Maurice	266 Lafayette Ave., Buffalo, N. Y.
Carberry, Francis Xavier	101 University Ave., Buffalo, N. Y.
Carlo, John James	308 Germania St., Buffalo, N. Y.
Caulfield, Colton Charles	142 Trowbridge St., Buffalo, N. Y.
Chan, Arthur Dore	27 West Genesee St., Buffalo, N. Y.
Clappa, Andrew	266 Virginia St., Buffalo, N. Y.
Clancy, Gerald Eugene	116 Maple St., Hornell, N. Y.
Cleary, Thomas Raymond	22 Kentucky St., Buffalo, N. Y.
Cogan, John Francis	32 Red Jacket Parkway, Buffalo, N. Y.
Colling, Clarence Frederick	10 Albro Ave., Springville, N. Y.
Collins, Cornelius Celestine	48 Kenefick Ave., Buffalo, N. Y.
Conley, Daniel Henry	Barker, N. Y.
Conley, Joseph Henry	129 Duerstein St., Buffalo, N. Y.
Constantino, Jacob George	3 Damonsville St., Mt. Morris, N. Y.
Costich, Charles Joseph	271 Hayward Ave., Rochester, N. Y.
Cowley, Edward Paul	165 Lockwood Ave., Buffalo, N. Y.
Cowley, John Louis	165 Lockwood Ave., Buffalo, N. Y.
Criden, Frank Morris	151 Madison St., Buffalo, N. Y.
Crowley, Cornelius George	76 Florida St., Buffalo, N. Y.
Crowley, Francis Edward	206 North Park Ave., Buffalo, N. Y.
Crowley, James Joseph	348 Porter Ave., Buffalo, N. Y.
Cuddihy, Edwin Michael	397 Eagle St., Buffalo, N. Y.

Culliton, Edward Charles	2079 Main St., Buffalo, N. Y.
Currier, Leonard Griffin	North Tonawanda, N. Y.
Czaczkowski, Matthew Stanislaus	419 Sweet Ave., Buffalo, N. Y.
Dady, James Thomas	432 Hoyt St., Buffalo, N. Y.
D'Arcy, Frank Leo	113 Fifteenth St., Buffalo, N. Y.
Dargan, Joseph Lee	87 California St., Buffalo, N. Y.
Dasaro, Louis A.	245 W. Tupper St., Buffalo, N. Y.
Deck, Gregory Joseph	25 Chester St., Buffalo, N. Y.
Dempsey, William Joseph	155 Lockwood Ave., Buffalo, N. Y.
Dietrich, William Augustus	Middleport, N. Y.
Di Pasquale, Joseph J.	241 Front Ave., Buffalo, N. Y.
Dobbins, Robert Joseph	137 Broadway, Depew, N. Y.
Dolan, William Joseph	69 Zittle St., Buffalo, N. Y.
Doll, Clarence Walter	1061 Ellicott St., Buffalo, N. Y.
Doll, Raymond John	216 Madison St., Buffalo, N. Y.
Donnelly, Joseph Edward	662 West Ave., Buffalo, N. Y.
Dooley, Francis Michael	1192 Main St., Buffalo, N. Y.
Doran, Robert Kerwin	Attica, N. Y.
Duane, Paul R.	68 West Tenth St., Jamestown, N. Y.
Duggan, Leo Matthew	110 Highland Ave., Buffalo, N. Y.
Edes, David Milton	48 Bliss Ave., Newport, R. I.
Enright, Nell, Francis	348 Porter Ave., Buffalo, N. Y.
Espenscheid, Arthur Adam	16 East Main St., Hamburg, N. Y.
Evans, George Joseph	268 Ohio St., Buffalo, N. Y.
Fadale, Ignatius Charles	233 Trenton Ave., Buffalo, N. Y.
Farrell, Leo George	29 Sage Ave., Buffalo, N. Y.
Febrey, Arnold Joseph	205 Jewett Parkway, Buffalo, N. Y.
Felst, Henry Charles	592 Linwood Ave., Buffalo, N. Y.
Fetes, Alton John	47 Hartman Place, Buffalo, N. Y.
Finnegan, Frank Vincent	86 Smith St., Buffalo, N. Y.
Finnigan, Myles Thomas	3 South Park St., Bangor, Me.
Flannery, James T.	348 Porter Ave., Buffalo, N. Y.
Flavin, George Francis	12 Winter St., Buffalo, N. Y.
Flood, Leo	Gorham, N. Y.
Flynn, Bernard Joseph	357 Humboldt Parkway, Buffalo, N. Y.
Friel, Mark Edward	Ellicottville, N. Y.
Fulco, Rosario Anthony	354 Front Ave., Buffalo, N. Y.
Furman, Donald James	East Concord, N. Y.
Gampp, Charles George	126 Loring Ave., Buffalo, N. Y.
Ganey, George Till	1349 Main St., Buffalo, N. Y.
Gaul, Osmond William	263 East Ave., Lockport, N. Y.
Gardner, Richard Michael	298 Bernard St., Rochester, N. Y.
Geib, Edward Lamoyne	123 Riverside Ave., Buffalo, N. Y.
Gentsch, John Francis	102 Northampton St., Buffalo, N. Y.
Gentner, Daniel Frank	40 Lisbon Ave., Buffalo, N. Y.
George, Edward A.	82 Wohlers Ave., Buffalo, N. Y.
Gerace, Louis Anthony	9 Hyde Park, Batavia, N. Y.
Gerber, Charles Joseph	Hamburg, N. Y.
Gerstner, Martin L.	2059 Main St., Buffalo, N. Y.
Gibbons, William Harold	320 Millbury St., Worcester, Mass.
Gibbons, William Joseph	120 Sidway St., Buffalo, N. Y.
Gwitt, Joseph Bernard	22 Townsend St., Buffalo, N. Y.
Gleason, Howard John	406 Glenwood Ave., Buffalo, N. Y.
Gordon, Raymond Joseph	438 Hoyt St., Buffalo, N. Y.

Grace, Frank T.	73	Durham Ave., Buffalo, N. Y.
Graf, Harold John	83	South Ave., Lockport, N. Y.
Griffin, William James	34	Heward Ave., Buffalo, N. Y.
Griffin, William Martin		North Girard, Pa.
Gross, Carl Jonathan	783	East Delavan Ave., Buffalo, N. Y.
Gruneisen, George Alphonse	511	Glenwood Ave., Buffalo, N. Y.
Haley, Lambert Francis	328	Fifteenth St., Buffalo, N. Y.
Hala, Stanley Andrew	1080	Smith St., Buffalo, N. Y.
Hanley, William Peter	348	Porter Ave., Buffalo, N. Y.
Hardy, George Mark	228	Ontario St., Buffalo, N. Y.
Harrington, William Clancy	380	Park Ave., Dunkirk, N. Y.
Hassenfratz, Arthur Christopher	180	Hughes Ave., Buffalo, N. Y.
Hayes, Thomas James	77	Broad St., Tonawanda, N. Y.
Herger, Benjamin Cornell	20	Putnam St., Buffalo, N. Y.
Hendricks, Frank P.	222	Baynes St., Buffalo, N. Y.
Hendricks, Paul E.	222	Baynes St., Buffalo, N. Y.
Heyden, Clarence Frederick	83	Nineteenth St., Buffalo, N. Y.
Hiden, Cecil		Tonawanda, N. Y.
Higgins, John Herbert	59	Ruggles St., Dunkirk, N. Y.
Hoar, James Edward	122	Sidway St., Buffalo, N. Y.
Hoffman, Clarence Joseph	767	Lafayette Ave., Buffalo, N. Y.
Hoffman, Frank Raymond	767	Lafayette Ave., Buffalo, N. Y.
Hohorst, Clarence Bernard	754	Broadway, Buffalo, N. Y.
Holbel, Sylvester Joseph	7	Guernsey St., Buffalo, N. Y.
Honsberger, Harold V.	43	Baxter St., Buffalo, N. Y.
Horrigan, James Francis	241	O'Connell Ave., Buffalo, N. Y.
Jones, Thomas J.	450	Fargo Ave., Buffalo, N. Y.
Jordan, James Patrick	7	Secnod Ave., North Tonawanda, N. Y.
Joyce, Leo Aloysius	448	Victory Ave., Lackawanna, N. Y.
Kane, Edmund Emmett	32	Buell Ave., Buffalo, N. Y.
Karin, Robert John		Bennett Road, Dunkirk, N. Y.
Kaszubowski, Francis Julian	472	Sweet Ave., Buffalo, N. Y.
Keefe, John Joseph	22	Park Ave., Depew, N. Y.
Kenny, John Fleming	384	Crescent Ave., Buffalo, N. Y.
Kierce, George William	348	Porter Ave., Buffalo, N. Y.
Kinn, Leo Michael	55	East Third St., Dunkirk, N. Y.
Kinsella, Edward Patrick	273	Summer Place, Buffalo, N. Y.
Kleis, Earl Milford	102	Triangle St., Buffalo, N. Y.
Klocke, Joseph Frederick	151	Eaton St., Buffalo, N. Y.
Koch, George Aloysius	17	Crescent Ave., Buffalo, N. Y.
Koessler, John Walter	159	Lisbon Ave., Buffalo, N. Y.
Kopec, Joseph Stanislaus	111	Metcalfe St., Buffalo, N. Y.
Kornprobst, Leo William	79	Lincoln Ave., Dunkirk, N. Y.
Krieger, Thomas Robert	34	Ridgepark Ave., Buffalo, N. Y.
Lane, Francis Emmet	348	Porter Ave., Buffalo, N. Y.
Lang, Norman Edward	502	Glenwood Ave., Buffalo, N. Y.
Lascola, August	720	Seventh St., Buffalo, N. Y.
Laughlin, John		Crittenden, N. Y.
Lawler, Clarence Garrett		Ashford, N. Y.
Lehde, Henry Charles		Forks, N. Y.
Lipowicz, Bernard Francis	1077	Broadway, Buffalo, N. Y.
Lutz, Joseph Benedict	427	Best St., Buffalo, N. Y.
Lynch, Arthur Thomas	87	Fort Hill Ave., Lowell, Mass.
Lynch, Frank Murphy	694	South Division St., Buffalo, N. Y.

Lynch, Maxey John	111 Greenfield St., Buffalo, N. Y.
Lynch, Richard Eugene	44 Ellsworth Road, Peabody, Mass.
Lyons, Thomas Victor	469 West Ferry St., Buffalo, N. Y.
McCabe, Felix Francis	213 Clark St., Astoria, L. I.
McCadden, Donald Patrick	Ellicottville, N. Y.
McCarthy, Charles Joseph	735 Abbott Road, Buffalo, N. Y.
McCarthy, Ignatius de Paul	141 Kentucky St., Buffalo, N. Y.
McConvey, William Augustin	141 Livingston St., Buffalo, N. Y.
McCormick, Joseph John	11 Harlow Place, Buffalo, N. Y.
McDade, Francis Edward	68 Crescent Ave., Buffalo, N. Y.
McDonough, Charles John	294 Woodward Ave., Buffalo, N. Y.
McDonough, Charles Joseph	2194 Main St., Buffalo, N. Y.
McGrail, Thomas Francis	23 Fulton St., Worcester, Mass.
McGrann, Albert P.	348 Porter Ave., Buffalo, N. Y.
McIntyre, Clarence Cameron	348 Porter Ave., Buffalo, N. Y.
McKenna, Francis William	138 Adams St., Buffalo, N. Y.
McLean, James A.	1239 Broadway, Watervliet, N. Y.
McMahon, Gerald Anthony	161 Chester St., Buffalo, N. Y.
McMahon, John Joseph	110 Alabama St., Buffalo, N. Y.
McNally, William D.	31 Carlton St., Buffalo, N. Y.
Madigan, Edward T.	508 Niagara St., Buffalo, N. Y.
Maeder, Robert Joseph	107 Triangle St., Buffalo, N. Y.
Magrum, Gervase Michael	Snyder, N. Y.
Maher, Lester John	Bergen, N. Y.
Mahoney, Richard Leo	348 Porter Ave., Buffalo, N. Y.
Margarone, Joseph Edward	207 Front Ave., Buffalo, N. Y.
Marquis, George Franklin	499 Glenwood Ave., Buffalo, N. Y.
May, Raymond F.	30 Central Ave., Lancaster, N. Y.
Mazurowski, Klemens Leonard	668 Northampton St., Buffalo, N. Y.
Mead, Arnold Boniface	318 Landon St., Buffalo, N. Y.
Mesner, Harold John	52 Mandan St., Buffalo, N. Y.
Metz, Norman Edward	50 Horton Place, Buffalo, N. Y.
Meyers, Leo Joseph	102 Mang Ave., Kenmore, N. Y.
Monczynski, Walter Stanislaus	2402 Bailey Ave., Buffalo, N. Y.
Moore, Francis Edward	31 Ericson Ave., Buffalo, N. Y.
Moran, James Howard	227 Church St., Lockport, N. Y.
Mowitz, Alfred W.	195 Franklin St., Tonawanda, N. Y.
Moynihan, Joseph William	348 Porter Ave., Buffalo, N. Y.
Mullaney, John Joseph	Lockport, N. Y.
Mullany, Harry S.	153 South Ave., Bradford, Pa.
Mullen, Joseph Robert	111 Miller St., North Tonawanda, N. Y.
Murphy, Clarence Francis	Varysburg, N. Y.
Murphy, Harold	385 Plymouth Ave., Buffalo, N. Y.
Murphy, Raymond Edward	41 Arkansas St., Buffalo, N. Y.
Murphy, Thomas Francis	348 Porter Ave., Buffalo, N. Y.
Nachreiner, Bernard John	143 Davey St., Buffalo, N. Y.
Nadolny, Chester John	1050 Walden Ave., Buffalo, N. Y.
Nalbach, George William	97 Hughes Ave., Buffalo, N. Y.
Naples, John Dominic	116 Lafayette Ave., Buffalo, N. Y.
Nicastro, Calogero Angelo	120 Front Ave., Buffalo, N. Y.
Nighan, Joseph Benedict	Lima, N. Y.
Niland, John Eugene	269 North Transit St., Lockport, N. Y.
Noble, Charles Austin	75 Beard Ave., Buffalo, N. Y.
Nolan, Joseph Patrick	11 Crowley St., Lowell, Mass.
Nowak, Stanley A.	1255 Broadway, Buffalo, N. Y.

O'Brien, Edward William	40	Leverett St., Fredonia, N. Y.
O'Brien, Frederick James	348	Porter Ave., Buffalo, N. Y.
O'Brien, Joseph Edward	463	Glenwood Ave., Niagara Falls, N. Y.
O'Brien, Joseph Patrick	71	Aldrich Ave., Buffalo, N. Y.
O'Brien, Neal John	249	Lexington Ave., Rochester, N. Y.
O'Brien, Norman Arthur	249	Lexington Ave., Rochester, N. Y.
O'Connell, William James		Lima, N. Y.
O'Connor, Carlton Paul	387	Plymouth Ave., Buffalo, N. Y.
O'Connor, Edwin George	429	Forest Ave., Buffalo, N. Y.
O'Connor, Gerald Francis	108	Elm St., Bangor, Me.
O'Day, John Killeen	64	Peoria St., Buffalo, N. Y.
O'Donnell, Alfred J.	696	South Division St., Buffalo, N. Y.
Ogilvie, George J.	258	Rhode Island St., Buffalo, N. Y.
O'Hare, John Joseph	236	Richmond Ave., Buffalo, N. Y.
O'Mailia, Eugene	No. 4	Freeman Court, So. Charleston, W. Va.
Over, Raymond Charles	35	Newell Ave., Lancaster, N. Y.
Pellen, Earl William	708	Broadway, Buffalo, N. Y.
Partika, Henry Joseph	87	Reed St., Buffalo, N. Y.
Phelps, Louis Grant	204	Main St., Whitesboro, N. Y.
Rose, Werner Joseph		Hamburg, N. Y.
Poleto, Joseph John	180	Carroll St., Buffalo, N. Y.
Pratt, Emory Louis	137	Riverside Ave., Buffalo, N. Y.
Purcell, William E.		Livonia Center, N. Y.
Pyros, Andrew	42	Madison St., New York, N. Y.
Quinn, Edward Francis	187	North Park Ave., Buffalo, N. Y.
Regan, Arthur J.	17	Florence Ave., Buffalo, N. Y.
Reill, Robert Martin	53	Sheffield Ave., Buffalo, N. Y.
Reinhard, William Nicholas	47	Johnson St., Buffalo, N. Y.
Richards, John Lawrence	68	O'Connell Ave., Buffalo, N. Y.
Rider, Charles Nelson	353	Richmond Ave., Buffalo, N. Y.
Riordan, Arthur Joseph	75	Highland Ave., Buffalo, N. Y.
Roach, John McDonough		Brocton, N. Y.
Rochford, Charles	718	Hopkins St., Buffalo, N. Y.
Romasser, Justin Francis	26	Prospect Ave., Attica, N. Y.
Roth, George James	100	Amherst St., Buffalo, N. Y.
Roy, Valier Joseph	53	Laurel St., Buffalo, N. Y.
Rutkowski, Leon Stanislaus	1145	Broadway, Buffalo, N. Y.
Ryan, Francis Aloysius	15	Cady St., Rochester, N. Y.
Ryan, Joseph Francis	348	Porter Ave., Buffalo, N. Y.
Schaad, W. Fred		Clarence Center, N. Y.
Schamel, John B.	1208	West Ave., Buffalo, N. Y.
Schank, John Howard	155	Sixteenth St., Buffalo, N. Y.
Schank, Joseph Francis	155	Sixteenth St., Buffalo, N. Y.
Scherer, Francis Mark	62	Anderson Place, Buffalo, N. Y.
Schumacher, Jules Frederick	109	Dodge St., Buffalo, N. Y.
Schupp, George John	442	Sherman St., Buffalo, N. Y.
Schuster, Leo Andrew	164	Longnecker St., Buffalo, N. Y.
Schweger, Edward Siegfried	274	Loring Ave., Buffalo, N. Y.
Seitz, Carl Frederick		Onoville, N. Y.
Seymour, Francis Joseph	340	Baynes St., Buffalo, N. Y.
Sheehan, James Aloysius	348	Porter Ave., Buffalo, N. Y.
Sheehe, Bernard Green		Java Village, N. Y.
Sheridan, William R.	114	Connecticut St., Buffalo, N. Y.
Shmulovitz, Benjamin	153	Madison St., Buffalo, N. Y.
Shrybman, Joseph Burnham	424	West Ferry St., Buffalo, N. Y.

Simmermacher, George A.	360 Hoyt St., Buffalo, N. Y.
Sippel, August Joseph	421 Washington Ave., Dunkirk, N. Y.
Sklarow, Louis	588 Jefferson Ave., Buffalo, N. Y.
Smith, Archibald Paul	187 Goundry St., North Tonawanda, N. Y.
Smith, Ernest Peter	7 Blainé Ave., Buffalo, N. Y.
Smith, John Henry	Clarence, N. Y.
Snyder, Cecil Geiger	1477 Main St., Buffalo, N. Y.
Snyder, Earl Philip	1477 Main St., Buffalo, N. Y.
Stahr, Walter John	16 Rees St., Buffalo, N. Y.
Stievater, Harry J.	923 Humboldt Parkway, Buffalo, N. Y.
Stievater, Willard Charles	923 Humboldt Parkway, Buffalo, N. Y.
Strot, Henry Joseph	41 Howard St., Buffalo, N. Y.
Stumpf, Donald Leonard	425 Park Ave., Dunkirk, N. Y.
Sullivan, Edward Joseph	412 West Delavan Ave., Buffalo, N. Y.
Sullivan, Eugene Michael	1433 South Park Ave., Lackawanna, N. Y.
Supples, Thomas Vincent	47 O'Connell Ave., Buffalo, N. Y.
Sutcliffe, Edward Thomas	232 Timon St., Buffalo, N. Y.
Sweeney, Louis Gustin	744 Ashland Ave., Buffalo, N. Y.
Sweeney, Raymond John	103 Crescent Ave., Buffalo, N. Y.
Talbot, Edward Francis	348 Porter Ave., Buffalo, N. Y.
Talty, Francis Patrick	28 Oakdale Place, Buffalo, N. Y.
Taylor, James Joseph	77 Princeton Place, Buffalo, N. Y.
Tierney, Patrick J.	135 South Ave., Biddeford, Me.
Timlin, Thomas A.	940 Ridge Road, Lackawanna, N. Y.
Tousley, Leo Kenneth	233 Sumner Place, Buffalo, N. Y.
Trainer, Carl Francis	Mt. Hope Ave., Bangor, Me.
Tramontana, Charles Benedict	109 Hudson St., Buffalo, N. Y.
Trapani, Bruno Joseph	518 Fargo Ave., Buffalo, N. Y.
Trulin, John Henry	219 May St., Buffalo, N. Y.
Ulinski, John Anthony	965 Sycamore St., Buffalo, N. Y.
Volker, Julius Joseph	39 Erie St., Lancaster, N. Y.
Ward, Cornelius Francis	444 South Park Ave., Buffalo, N. Y.
Waters, Layton Alfred	258 Glenwood Ave., Buffalo, N. Y.
Weber, William A.	20 Rich St., Buffalo, N. Y.
Weyand, Charles Mathias	48 Dodge St., Buffalo, N. Y.
White, Richard Anthony	14 Pearl Place, Buffalo, N. Y.
Williamson, John T.	97 East Ave., Lockport, N. Y.
Wolf, Hugh Kennedy	24 St. James Place, Buffalo, N. Y.
Yeager, Charles Thomas	334 Pennsylvania St., Buffalo, N. Y.
Zawadzki, Casimir T.	798 Fillmore Ave., Buffalo, N. Y.
Ziegler, William P.	1000 Northampton St., Buffalo, N. Y.
Zielinski, Anthony Alexander	1038 Smith St., Buffalo, N. Y.

Catalogue of Students by Classes

GRADUATE STUDENTS

Dawson, Henry A., B. A., Yale	Burke, Nellie E., B. A., Canisius
Frey, Emil A., B. S., Canisius	Grupp, Florence, B. A., Catholic Univ.
Healy, Vincent H., B. A., Canisius	Hays, Margaret, B. A., Marywood, Scranton, Pa.
Heimerle, Herbert B., B. A., Canisius	Hogan, Gertrude, B. A., D'Youville
Killeen, Francis J., B. A., Canisius	Redmond, Beatrice
Phillips, Martin G., B. A., Canisius	Schumacher, Olive
Pingitore, Louis A., B. A., Canisius	Valentine, Helen L.

Sister M. Aloysius, B. A., State College for Teachers, Albany.
 Sister M. Celestia, B. A., St. Elizabeth's College Convent, N. J.
 Sister M. Emily, B. A., St. Elizabeth's College Convent, N. J.
 Sister M. Francis, B. A., Canisius.
 Sister M. Francis de Sales, B. A., Canisius.
 Sister M. Roberta, B. A., Canisius.
 Sister M. Rose Miriam, B. A., St. Elizabeth's College Convent, N. J.

Senior Class

Boroszewski, John P.	*Regan, Arthur J.
Cain, Stephen P.	Rochford, Charles
Dooley, Francis M.	Romasser, Justin F.
*Friel, Mark E.	Schupp, George J.
*Graf, Harold J.	Sheridan, William R.
*Jordan, James P.	Smith, Ernest P.
Koch, George A.	*Stievater, Harry J.
Mullen, Joseph R.	Strot, Henry J.
*Murphy, Harold	

Junior Class

*Campana, Humbert J.	Kleis, Earl M.
Canty, Edward M.	*Klocke, Joseph F.
*Clancy, Gerald E.	Kopec, Joseph S.
*Cogan, John F.	Lutz, Joseph B.
Cuddihy, Edwin M.	*Lynch, Maxey J.
Doran, Robert K.	*McConvey, William A.
*Gaul, Osmond W.	McGrail, Thomas F.
Gentsch, John F.	McKenna, Francis W.
*George, Edward A.	Magrum, Gervase M.
Gordon, Raymond J.	*Metz, Norman E.
Griffin, William J.	*O'Brien, Edward William
Haley, Lambert F.	Ryan, Francis A.
*Hayes, Thomas J.	Schwegler, Edward S.
Hoar, James E.	*Stievater, Willard C.
Jones, Thomas J.	*Ulinski, John A.
*Joyce, Leo A.	Wolf, Hugh K.
Kinsella, Edward P.	

Sophomore Class

*Antkowiak, Adalbert S.	Callanan, Matthew J.
*Barr, William A.	*Carlo, John J.
*Bogan, Robert J.	Cleary, Thomas R.
Boone, Daniel K.	Collins, Cornelius C.
*Bowen, Cornelius J.	*Conley, Daniel H.
*Brady, Francis	*Constantino, Jacob G.
Brennan, James F.	*Costich, Charles J.
Broderick, Joseph V.	*Cowley, Edward P.
*Buchheit, Rudolph G.	*Criden, Frank M.

- Crowley, Francis E.
Culliton, Edward C.
*Espenscheid, Arthur A.
*Farrell, Leo G.
*Flood, Leo
*Flynn, Bernard J.
Gampp, Charles G.
*Gentner, Daniel F.
Gerace, Louis A.
Gleason, Howard J.
*Gwitt, Joseph B.
Holbel, Sylvester J.
Horrigan, James F.
*Kane, Edmund E.
Kinn, Leo M.
McCarthy, Ignatius de Paul
McCormick, Joseph J.
McDonough, Charles J.
*McMahon, Gerald A.
*McMahon, John J.
*Madigan, Edward T.
*Marquis, George F.
*May, Raymond F.
Mead, Arnold B.
Meyers, Leo J.
*Monczynski, Walter S.
Moore, Francis E.
Moran, James H.
*Mowitz, Alfred W.
Murphy, Clarence F.
*Nadolny, Chester J.
Naples, John D.
*O'Brien, Joseph P.
*O'Connell, William J.
O'Connor, Edwin G.
Partika, Henry J.
*Phelps, Louis G.
*Riordan, Arthur J.
*Rose, Werner J.
*Seitz, Carl F.
Seymour, Francis J.
*Shmulovitz, Benjamin
*Simmernacher, George A.
*Stahrr, Walter J.
*Sullivan, Eugene M.
*Supples, Thomas V.
*Talty, Francis P.
*Taylor, James J.
*Tierney, Patrick J.
Volker, Julius J.
*Ward, Cornelius F.
*Yeager, Charles T.

Freshman Class

- *Barr, Philip J.
*Barten, Andrew N.
*Bartlett, Edward C.
*Battaglia, Anthony C.
*Berkery, Edward T.
*Biniszklewicz, Edward A.
*Bird, Bernard
*Borkowski, Bronislaus R.
*Brylski, Florian S.
Buchanan, George J.
*Burt, Russell E.
*Candee, Cornelius F.
*Carberry, Francis X.
*Caulfield, Colton C.
*Chan, Arthur D.
*Ciappa, Andrew
*Colling, Clarence F.
Conley, Joseph H.
Cowley, John L.
*Crowley, Cornelius G.
Crowley, James J.
*Czaczkowski, Matthew S.
*Dady, James T.
*D'Arcy, Frank L.
*Dargan, Joseph L.
*Dasaro, Louis A.
*Deck, Gregory J.
*Dempsey, William J.
*Di Pasquale, Joseph J.
Dobbins, Robert J.
*Dolan, William J.
*Doll, Clarence W.
*Doll, Raymond J.
Donnelly, Joseph E.
*Duane, Paul R.
*Edes, David M.
Enright, Neil F.
*Fadale, Ignatius C.
*Febrey, Arnold J.
*Feist, Henry C.
Fetes, Alton J.
*Finnegan, Frank V.
*Finnigan, Myles T.
Flannery, James T.
*Flavin, George F.
Fleischman, Peter X.
Fulco, Rosario A.
Furman, Donald J.
*Ganey, George T.
*Gardner, Richard M.
*Geib, Edward L.
*Gerber, Charles J.
*Gerstner, Martin L.
*Gibbons, William H.
*Grace, Frank T.
*Gross, Carl J.
*Gruneisen, George A.
Hala, Stanley A.
Hanley, William P.
Hardy, George M.

- *Harrington, William C.
- *Hassenfratz, Arthur C.
- *Herger, Benjamin C.
- Heyden, Clarence F.
- *Higgins, John H.
- Hoffman, Clarence J.
- *Hoffman, Frank R.
- Hohorst, Clarence B.
- *Kaminski, Leo A.
- *Karin, Robert J.
- Kaszubowski, Francis J.
- *Keefe, John J.
- *Kenny, John F.
- Kierce, George W.
- *Kornprobst, Leo W.
- Krieger, Thomas R.
- Lane, Francis E.
- *Lang, Norman E.
- *Lascola, August
- *Laughlin, John
- *Lawler, Clarence G.
- *Lehde, Henry C.
- *Lipowicz, Bernard F.
- *Lynch, Arthur T.
- *Lynch, Frank M.
- Lynch, Richard E.
- *Lyons, Thomas V.
- *McCabe, Felix F.
- *McCadden, Donald P.
- *McCarthy, Charles J.
- *McDade, Francis E.
- *McDonough, Charles J.
- McGrann, Albert P.
- McIntyre, Clarence C.
- *Maeder, Robert J.
- Maher, Lester J.
- Mahoney, Richard L.
- *Margarone, Joseph E.
- *Mazurowski, Klemens L.
- *Mesner, Harold J.
- Moynihan, Joseph W.
- *Mullaney, John J.
- *Mullany, Harry S.
- *Murphy, Raymond E.
- Murphy, Thomas F.
- Nachreiner, Bernard J.
- Nalbach, George W.
- *Nicastro, Calogero A.
- *Nighan, Joseph B.
- *Niland, John E.
- *Noble, Charles A.
- *Nolan, Joseph P.
- *Nowak, Stanley A.
- O'Brien, Frederick J.
- *O'Brien, Joseph E.
- *O'Brien, Norman A.
- O'Connor, Gerald F.
- *O'Day, John K.
- *O'Donnell, Alfred J.
- *Ogilvie, George J.
- *O'Mallia, Eugene
- Over, Raymond C.
- Pellien, Earl W.
- *Poletto, Joseph J.
- *Pratt, Emory L.
- *Purcell, William E.
- *Pyros, Andrew
- *Quinn, Edward F.
- *Reill, Robert M.
- *Reinhard, William N.
- Richards, John L.
- *Rider, Charles N.
- *Roth, George J.
- *Roy, Valier J.
- *Rutkowski, Lion S.
- Ryan, Joseph F.
- Schaad, W. Fred
- *Schamel, John B.
- *Schank, John H.
- *Schank, Joseph F.
- *Scherer, Francis M.
- *Schreiber, Anthony J.
- Schuster, Leo A.
- *Schumacher, Jules F.
- Sheehan, James A.
- *Sheehe, Bernard G.
- *Shrybman, Joseph B.
- *Sippel, August J.
- *Sklarow, Louis
- *Smith, Archibald P.
- *Smith, John H.
- *Snyder, Cecil G.
- Snyder, Earl P.
- Stumpf, Donald L.
- Sweeney, Louis G.
- *Sweeney, Raymond J.
- Talbot, Edmund F.
- Thill, John V.
- *Timlin, Thomas A.
- *Tousley, Leo K.
- *Trainor, Carl F.
- *Tramontana, Charles B.
- *Trapani, Bruno J.
- Trulini, John H.
- Waters, Layton A.
- *Weyand, Charles M.
- *White, Richard A.
- *Williamson, John T.
- *Ziegler, William P.
- *Zielinski, Anthony A.

Special and Unclassified

Barden, John J.
Birmingham, James F.
Brennan, Laurence P.
Brownjohn, George M.
Burns, H. Don
Burns, James F.
Burns, Robert
Currier, Leonard G.
Dietrich, William A.
Duggan, Leo M.
Evans, George J.
Gibbons, William J.
Griffin, William M.
Hendricks, Frank P.

Hendricks, Paul E.
Honsberger, Harold V.
Koessler, John W.
McLean, James A.
McNally, William D.
O'Brien, Neal J.
O'Connor, Carlton P.
O'Hare, John J.
Roach, John Mc D.
Sullivan, Edward J.
Sutcliffe, Edward T.
Weber, William A.
Zawadzki, Casimir T.

* Science Course

Summer School, 1921**SISTERS OF SAINT BENEDICT
ERIE, PA.**

Sister M. Ignatia

Sister M. Zita

**SISTERS OF SAINT BENEDICT
ST. MARYS, PA.**Sister M. Dorothy
Sister M. Irene

Sister M. Madeline

**SISTERS OF CHARITY
BUFFALO, N. Y.**

Sister M. Loretto

**SISTERS OF CHARITY
SYRACUSE, N. Y.**

Sister M. Anna

Sister M. Aurea

**SISTERS OF SAINT DOMINIC
ODELL, ILL.**

Sister M. Ernestine

Sister M. Gonzales

**SISTERS OF SAINT FRANCIS
ALLEGANY, N. Y.**

Sister M. Eucharía

Sister M. Huberta

**FELICIAN SISTERS OF SAINT FRANCIS
BUFFALO, N. Y.**Sister M. Angelis
Sister M. Ernestine
Sister M. MichaelineSister M. Modesta
Sister M. Nepomucena**SISTERS OF SAINT FRANCIS
PINE STREET, BUFFALO, N. Y.**Sister M. Agnes
Sister M. Ambrose
Sister M. Anacletus
Sister M. Angeline
Sister M. Carmita
Sister M. Cecilia
Sister M. Dorothy
Sister M. Eustachia
Sister M. Florence
Sister M. Fortunata
Sister M. Germaine
Sister M. Gregory
Sister M. HyronimaSister M. Irmina
Sister M. Isabel
Sister M. Jeanette
Sister M. Joanna
Sister M. Loretta
Sister M. Lucretia
Sister M. Lucy
Sister M. Marcella
Sister M. Marie
Sister M. Mildred
Sister M. Seraphia
Sister M. Thomasine

**SISTERS OF SAINT FRANCIS
STELLA NIAGARA, LEWISTON, N. Y.**

Sister M. Blanca	Sister M. Leontine
Sister M. Dionysia	Sister M. Serafia
Sister M. Electa	Sister M. Virginia
Sister M. Gonzaga	

**SISTERS OF SAINT JOSEPH
BUFFALO, N. Y.**

Sister M. Adrian	Sister M. Esther
Sister M. Agnes	Sister M. Ethelburg
Sister Agnes Teresa	Sister M. Ethelreda
Sister M. Agnita	Sister M. Eucharista
Sister M. Aide	Sister M. Eucharista
Sister M. Albert	Sister M. Euphrosyne
Sister M. Albertine	Sister M. Expedite
Sister M. Albina	Sister M. Ferdinand
Sister M. Alice	Sister M. Flora
Sister Alice Marie	Sister M. Florentine
Sister M. Alicia	Sister M. Francis
Sister Alma Perpetua	Sister Francis Borgia
Sister M. Anastasia	Sister Francis de Sales
Sister M. Angela	Sister Francis Jerome
Sister M. Anita	Sister Francis Paula
Sister M. Annunciata	Sister Francis Regis
Sister M. Aquila	Sister M. Frederic
Sister M. Arsenia	Sister M. Gabriel
Sister M. Assumpta	Sister M. Genevieve
Sister M. Augusta	Sister M. Gerald
Sister M. Austin	Sister M. Germaine
Sister M. Barbara	Sister M. Gervase
Sister M. Basil	Sister M. Grace
Sister M. Bathilde	Sister M. Gregory
Sister M. Benedict	Sister M. Harold
Sister M. Bernardette	Sister Helen Agnes
Sister M. Bernardo	Sister Herman Joseph
Sister M. Bibiana	Sister M. Hyacinthe
Sister M. Borromeo	Sister M. Ignace
Sister M. Cassiana	Sister M. Ignatius
Sister M. Catherine	Sister M. Irma
Sister Cecilia Agnes	Sister M. Isabella
Sister M. Claudia	Sister M. Isadore
Sister M. Constantia	Sister M. Isidore
Sister M. Dionysia	Sister James Edward
Sister M. Dolores	Sister M. Jeanette
Sister M. Dolorosa	Sister M. Joan
Sister M. Dorothy	Sister Joan of Arc
Sister M. Dosethius	Sister John Joseph
Sister M. Edmund	Sister Joseph Mary
Sister M. Edwarda	Sister M. Joseph
Sister M. Eleanor	Sister M. Juliana
Sister M. Elizabeth	Sister M. Lambert
Sister M. Eileen	Sister M. Laura
Sister M. Emmanuel	Sister M. Laurentina

Sister M. Leonardo	Sister M. Rita Clare
Sister M. Lidwina	Sister M. Roberta
Sister M. Loretta	Sister M. Rosalia
Sister M. Louis	Sister M. Rose
Sister M. Loyola	Sister Rose Agnes
Sister M. Lucia	Sister Rose Gertrude
Sister M. Lucretia	Sister Rose Mary
Sister M. Lucilla	Sister M. Ruth
Sister M. of the Sacred Heart	Sister M. Sabina
Sister M. Macrina	Sister M. Serena
Sister M. Madeline	Sister M. Silverius
Sister M. Marceline	Sister M. Stanislaus
Sister M. Margaret	Sister M. Stella
Sister Margaret Joseph	Sister St. Anne
Sister M. Marguerite	Sister St. Anthony
Sister M. Marie	Sister St. Charles
Sister M. Martina	Sister St. David
Sister M. Mercedes	Sister St. Denis
Sister M. Mildred	Sister St. Henry
Sister Mount Carmel	Sister St. Leonard
Sister M. Nativity	Sister St. Luke
Sister M. Nolasco	Sister St. Patrick
Sister M. Oswald	Sister M. Sylvester
Sister M. Othelia	Sister M. Sylvia
Sister M. Paula	Sister M. Teresa
Sister M. Paul of the Cross	Sister M. Teresina
Sister M. Pelagia	Sister M. Theodosia
Sister M. Philip	Sister M. Ursula
Sister M. Pierre	Sister M. Ursaline
Sister M. Raphael	Sister M. Venette
Sister M. Regina	Sister M. Vincent
Sister M. Remegia	Sister Vincent de Paul
Sister M. Ricardo	Sister M. Wilfred
Sister M. Richard	Sister M. Winifred
Sister M. Rita	

**SISTERS OF SAINT JOSEPH
ERIE, PA.**

Sister M. Agnita	Sister M. Doloretta
Sister Anna Marie	Sister M. Edward
Sister M. Berenice	Sister Emma Therese
Sister M. Brigid	Sister M. Georgiana
Sister M. Carita	Sister M. Laurence
Sister M. Clemenza	Sister Marie Frances
Sister M. Constance	Sister M. Monacella
Sister M. de Chantal	Sister M. Rosaria

**SISTERS OF SAINT JOSEPH
PETERBORO, ONTARIO, CANADA**

Sister M. Augustine	Sister M. Geraldine
Sister M. Beatrice Marie	Sister M. Paula
Sister M. Bernardino	Sister Teresa Marie
Sister M. Ethelreda	

SISTERS OF SAINT JOSEPH**ROCHESTER, N. Y.**

Sister Agnes Miriam
 Sister Anna de Sales
 Sister M. Augusta
 Sister M. Dafrosa
 Sister M. Dominic
 Sister M. Florita
 Sister M. Frances
 Sister Frances Teresa
 Sister M. Lambert

Sister M. Miriam
 Sister M. Paulette
 Sister M. Pauline
 Sister M. Philippa
 Sister Rose Marie
 Sister Rose Miriam
 Sister M. Stanislaus
 Sister M. Teresita
 Sister M. Vida

SISTERS OF SAINT JOSEPH**TROY, N. Y.**

Sister Alice Irene
 Sister Anna Gonzaga
 Sister M. Celestia

Sister M. Emily
 Sister M. Redempta
 Sister Teresa Agnes

SISTERS OF SAINT MARY NAMUR**BUFFALO, N. Y.**

Sister M. Catharine
 Sister M. Felicity

Sister M. Theophane

SISTERS OF SAINT MARY NAMUR**LOCKPORT, N. Y.**

Sister M. Bernice
 Sister M. Dolorosa
 Sister M. Leo
 Sister M. Loyola
 Sister M. Margaret

Sister M. Mildred
 Sister Rose Mary
 Sister M. Ruth
 Sister M. Wilfrid
 Sister M. St. William

SISTERS OF MERCY**MOUNT MERCY, BUFFALO, N. Y.**

Sister M. Anina
 Sister M. Bon Secours
 Sister M. Charles
 Sister M. Consilii
 Sister M. Dorothy
 Sister M. Fabian
 Sister M. Francesca
 Sister M. Geraldine
 Sister M. Germaine
 Sister M. Hilda
 Sister M. Joan
 Sister M. Josepha
 Sister M. Leocritia
 Sister M. Loyola

Sister M. Manuella
 Sister M. Michael
 Sister M. Monica
 Sister M. Nolasco
 Sister M. Pancratia
 Sister M. Pauline
 Sister M. Pierre
 Sister M. Regis
 Sister M. Ricardo
 Sister M. Scholastica
 Sister M. Stella
 Sister M. Teresa
 Sister M. Theodosia

**SISTERS OF MERCY
ROCHESTER, N. Y.**

Sister M. Antonia
Sister M. Camilla
Sister M. Charles
Sister M. Columba
Sister M. Dorothea
Sister M. Francesca

Sister M. Loretto
Sister M. Monica
Sister M. Rita
Sister M. Stella
Sister M. Theodosia
Sister M. Ursula

**SISTERS OF NOTRE DAME
BUFFALO, N. Y.**

Sister M. Charitina
Sister M. Eymard
Sister M. Humiliana

Sister M. J. Nepomucene
Sister M. Sacricordis

LAX STUDENTS

- Barr, William A.
 Birmingham, James F.
 Boland, Miss Margaret M.
 Boone, Daniel
 Bouwhuis, Miss Caroline M.
 Brennan, Miss Gertrude
 Brien, Edward A.
 Britting, Miss Geraldine A.
 Brzezicki, John M.
 Buchheit, Rudolph G.
 Bullett, Arthur E.
 Burke, Miss Isabelle A.
 Burke, Miss Nellie E.
 Burlingame, Marshall R.
 Burns, James F.
 Bush, Miss Marcella A.
 Butterfield, Dwight W.
 Cain, Stephen P.
 Campana, Humbert J.
 Campbell, Miss Mary K.
 Canty, Edward M.
 Carmody, Miss Mary M.
 Carr, Joseph V.
 Caulfield, Miss Loretta V.
 Chittenden, Miss Ruth C.
 Cogan, John F.
 Collins, Miss Agnes
 Collins, Cornelius C.
 Connors, Miss Mary L.
 Conrad, Miss Mary
 Coonly, Miss Margaret M.
 Coughlin, Miss Mary E.
 Courtade, Miss Lauren G.
 Creahan, Miss Nora F.
 Crehan, Miss Anna M.
 Crofts, Miss Mary E.
 Cuff, Miss Helen M.
 Cullinane, Miss Mary A.
 Curran, Miss Marie C.
 Cursons, Miss Jane M.
 Dearing, Miss Mary E.
 De Laney, Miss Mary A.
 Di James, Daniel J.
 Di Maria, Vincent S.
 Dooley, Francis M.
 Draine, Miss May D.
 Driscoll, Miss Florence M.
 Driscoll, Peter J.
 Farrell, Miss Bertha C.
 Fitch, John F.
 Flore, Miss Bertha C.
 Foss, David C.
 Galbraith, Miss Mary A.
 Gallagher, Miss Eileen A.
 Galvin, Miss Annabel D.
 Gibbons, Edward H.
 Glucksman, Erwin
 Graf, John H.
 Gross, Carl J.
 Grupp, Miss Florence H.
 Guthiel, Andrew W.
 Hammill, Bernard H.
 Hanley, Miss Alice L.
 Hanley, Miss Mary A.
 Hanrahan, Miss Jane T.
 Haren, Miss Anne K.
 Hassett, Miss Blanche
 Hayes, Thomas J.
 Hays, Miss Margaret
 Henel, Miss Catherine S.
 Hennessey, William F.
 Hogan, Miss Gertrude
 Holland, Henry O.
 Honecker, Norman C.
 Houck, Miss Mildred M.
 Howel, Miss Glen
 Howell, Miss Helen E.
 Ippolito, Anthony A.
 Jay, Miss Pauline
 Judge, Miss Josephine
 Kam, Miss Eunice T.
 Karbach, Eugene L.
 Karl, Alphonse
 Karl, Theodore
 Kelly, John E.
 Kennedy, Robert E.
 Kessel, Miss Brina H.
 Kinsella, Edward P.
 Kirchmeyer, Joseph R.
 Knell, Miss Ruth C.
 Koch, Miss Frances M.
 Koessler, John
 Krehbiel, Miss Helen B.
 La Duca, Paul
 Lahiff, Miss Mary T.
 Lane, Miss Catharine L.
 Lattin, Miss Helen A.
 Lenahan, Miss Eileen
 Lennon, Miss Anna C.
 Lipowicz, Bernard F.
 Lynch, Maxey J.
 McCabe, Homer M.
 McConvey, William A.
 McDonnell, Arthur J.
 McGrath, John B.
 McGuire, Francis M.
 McLeod, James C.
 McNally, William D.
 McNamara, Miss Angela M.
 McOwen, James B.
 Magee, Charles S.
 Marchand, Herbert J.
 Missert, Alfred F.
 Mountain, Thomas D.

LAY STUDENTS (Continued)

Mowitz, Alfred W.	Schnieder, Miss Martha B.
Muller, Alexis V.	Schreiber, Miss Genevieve
Munson, Miss Ella M.	Schumacher, Miss Olive F.
Murphy, Edward G.	Schwartz, Miss Esther M.
Nadolny, Chester J.	Seitz, Karl F.
Navagh, Miss Isabel	Shea, James L.
Naylon, Henry M.	Sheehan, Joseph F.
Nicastro, Calogero A.	Sheridan, William R.
Noonan, Miss Anna H.	Smith, Miss Maude E.
O'Brien, Miss Anna G.	Spain, Miss Mary E.
O'Hare, John J.	Stanley, Miss Mary M.
Olstowski, Joseph G.	Stark, Miss Georgina M.
O'Neil, Miss Monica C.	Steudle, Miss Mary
O'Shaughnessey, William J.	Sugnet, Everett H.
Perry, Miss Catherine F.	Sullivan, Edward J.
Pitass, John F.	Sullivan, Eugene M.
Posner, David	Szafranski, Casimir J.
Quinlon, Miss Winifred B.	Tobey, Miss Maude R.
Reardon, Miss Margaret L.	Townsend, Richard E.
Regan, Brother Robert	Tyrrell, Miss Teresa A.
Riester, Miss Adele E.	Villiaume, Miss M. Louise
Rochford, Charles S.	Walsh, Miss Grace E.
Ryan, Miss Mary	Wanamaker, Miss Agnes
Sapienza, Leonard A.	Warren, James P.
Scanlon, Miss Agnes	Welch, Miss Anna M.
Schnieder, Miss Agnes P.	Yates, Richard

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Mr. Walter P. Amoss.....	FRENCH, PHYSICS	37 Knowlton Street
Miss Mary Anderson.....	SOCIAL SCIENCE	160 Leroy Avenue
Sister M. Angelis.....	ENGLISH, LATIN, PHYSICS	
Sister Anna Marie.....	LATIN, PHILOSOPHY, SPANISH	
Mr. Harold Barber.....	CHEMISTRY	31 Johnson Park
Dr. Samuel Barone.....	INVESTMENTS	216 Front Avenue
Miss Catherine Barry.....	ACCOUNTING	118 Mariner Street
Miss Mabel Barry.....	ACCOUNTING	118 Mariner Street
Sister M. Berenice.....	FRENCH	
Miss Helen Bingham.....	MATHEMATICS, FRENCH, LATIN, SOCIAL SCIENCE	580 Linwood Avenue
Mr. William Bittner.....	ENGLISH	292 Woltz Avenue
Miss Caroline Bouwhuis.....	APOLOGETICS	81 Triangle Street
Miss Frances Brindler.....	ENGLISH	228 Ideal Street
Miss Mary J. Brown.....	EDUCATION	31 Mariner Street
Miss Mae Brunn.....	ACCOUNTING	90 Keystone Street
Rev. Charles Bruton.....	LATIN	70 Frank Street, Rochester, N. Y.
Miss Catherine Burke.....	SOCIAL SCIENCE	38 South Street
Miss Nellie E. Burke.....	ENGLISH, FRENCH	154 Wakefield Avenue
Mr. Paul F. Burke.....	BUSINESS LAW, INVESTMENTS	403 Porter Avenue
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Miss Agnes Butler.....	EDUCATION	138 Grant Street
Mr. William J. Callanan.....	PHILOSOPHY	1727 Main Street
Miss Ethel Campbell.....	JOURNALISM	22 Lonsdale Road
Mr. Joseph Canty.....	ENGLISH	266 Lafayette Avenue
Miss Mary Carmody.....	PHILOSOPHY	1204 Kensington Avenue
Miss Charlotte Cassassa.....	ACCOUNTING	511 Prospect Avenue
Miss Loretta Caulfield.....	ENGLISH, PHILOSOPHY, PHYSICS, FRENCH	15 Como Avenue
Sister Mary Christine.....	LATIN	
Mr. Edward J. Clark.....	ACCOUNTING, BUSINESS	25 Pawnee Parkway
Miss Mary E. Cleary.....	ENGLISH, PHILOSOPHY	614 Humboldt Parkway
Mr. Joseph M. Clifford.....	CHEMISTRY	1088 Elmwood Avenue
Mr. Arthur Collins.....	BUSINESS LAW	Buffalo, N. Y.

Mr. Harry S. Collins.....	1828 Seneca Street
FRENCH	
Mr. John F. Collins.....	375 Fulton Street
CHEMISTRY, PHILOSOPHY	
Mr. Ward Connery.....	728 Tenth Street, Niagara Falls, N. Y.
ACCOUNTING	
Miss Mary Conrad.....	350 Guilford Street
FRENCH, ENGLISH, PHILOSOPHY	
Sister M. Constantia	
HISTORY	
Sister Constantia	
MATHEMATICS, SPANISH	
Mr. Edward Coonly	511 Rhode Island Street
FRENCH	
Miss Margaret Coonly.....	560 West Avenue
ENGLISH, FRENCH, MATHEMATICS	
Miss Winifred Coonly.....	94 Butler Avenue
EDUCATION	
Mr. William F. Corbett.....	542 Fulton Street
ACCOUNTING	
Sister M. Cornelia	
LATIN, EDUCATION, PHILOSOPHY, SPANISH	
Miss Mary E. Coughlin.....	3 Aurora Street, Lancaster, N. Y.
LATIN	
Miss Helen L. Coyle	15 Heath Street
FRENCH	
Miss Nora Creahan.....	10 Seneca Parkside
EDUCATION, FRENCH	
Miss Anna Crehan.....	116 Walter Street
APOLOGETICS	
Miss Mary E. Crofts.....	124 Woodbridge Avenue
ITALIAN, ENGLISH, HISTORY	
Mr. Francis Cullen	490 Woodlawn Avenue
PHILOSOPHY	
Mr. Casimir Culligan	506 Delaware Avenue
ACCOUNTING, BUSINESS LAW, INVESTMENTS	
Miss Agnes Cunningham.....	325 Herkimer Street
SPANISH	
Miss Marie C. Curran.....	117 Loring Avenue
MATHEMATICS, EDUCATION, LATIN	
Mr. William J. Dale.....	47 Roanoke Parkway
ACCOUNTING	
Mr. Cyril Daley.....	414 Victory Avenue, Lackawanna, N. Y.
ACCOUNTING, BUSINESS LAW	
Anthony J. D'Arcangelo.....	551½ Ninth Street, Niagara Falls, N. Y.
ACCOUNTING	
William H. Davenport.....	140 E. North Street
EDUCATION, PHILOSOPHY	
Mr. Henry S. Dawson.....	364 West Avenue
PHILOSOPHY	
Miss Dorothy Dean.....	364 Bryant Street
CHEMISTRY, SPANISH, PHILOSOPHY	
Miss Mary E. Dearing.....	122 Best Street
EDUCATION, PHILOSOPHY	
Mr. Charles Decker.....	168 Timon Street
MATHEMATICS	
Mr. William C. Dell.....	684 Grant Street
BUSINESS LAW	
Miss Josephine E. Dempsey.....	73 Englewood Avenue
FRENCH	
Miss Frances Desmond.....	449 Norwood Avenue
PHILOSOPHY	
Mr. Franklin Desmond.....	117 Loring Avenue
ENGLISH, LATIN	
Miss Loretta Desmond.....	29 Brunswick Avenue
SPANISH, INVESTMENTS	
Miss Margaret Dietrich.....	828 West Avenue
ENGLISH, FRENCH, LATIN, PHILOSOPHY	

Miss Mabel Dimmers.....	PHILOSOPHY	101 Indian Church Road
Sister M. Dionysia	LATIN, EDUCATION, ENGLISH	
Miss Coaina Disch.....	ACCOUNTING	125 Indian Church Road
Mr. Francis X. Doherty.....	CHEMISTRY	75 Verplanck Street
Miss Florence Doll.....	APOLOGETICS	120 College Street
Miss Lillian A. Doll.....	APOLOGETICS	120 College Street
Sister M. Dolores	FRENCH	
Miss Grace Dooley.....	ENGLISH	443 Elk Street
Miss May Draine.....	FRENCH	333 Auburn Avenue
Miss Ruth L. Drake	FRENCH	
Miss Catherine Duffy	PHILOSOPHY	
Mr. John A. Duffy.....	ENGLISH, PHYSICS	137 Parkside Avenue
Miss Ruth Duffy	FRENCH	
Miss Frances Dunne.....	LATIN, ITALIAN	125 Edward Street
Sister M. Edmund	ENGLISH, SPANISH	
Sister M. Electa	ENGLISH, LATIN, EDUCATION	
Miss Jessie Ellis.....	EDUCATION	86 Eastwood Avenue
Miss Bertha Farrell.....	FRENCH, LATIN	2063 Hertel Avenue
Miss Mary E. Farrington.....	LATIN, ENGLISH, CHEMISTRY, GERMAN	449 Elk Street
Mr. Millard E. Fetes.....	BUSINESS LAW	47 Hartman Place
Miss Margaret Finnegan.....	PHILOSOPHY	126 Sage Avenue
Miss Alice L. Fish.....	ENGLISH	340 Elmwood Avenue
Miss Evelyn Flannery.....	SOCIAL SCIENCE	40 Seymour Street
Miss Bertha Flore.....	PHILOSOPHY, ENGLISH	73 Clinton Street
Miss Christine Foell.....	ACCOUNTING	51 Kehr Street
Miss Helen Foody.....	ACCOUNTING	190 Baynes Street
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Sister M. Gervase	LATIN	
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Miss Genevieve Goergen.....	537 Best Street
ENGLISH	
Miss Catherine Goetz.....	232 Crescent Avenue
ACCOUNTING	
Miss Marie H. Goetz.....	232 Crescent Avenue
ACCOUNTING	
Miss Mary Golmbacher.....	29 Grey Street
PHILOSOPHY	
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PHYSICS	
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ITALIAN, SPANISH	
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ENGLISH	
Mr. Trevor W. Habberfield.....	372 Hudson Street
BUSINESS LAW	
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SPANISH	
Miss Gertrude Hanley.....	79 Oakgrove Avenue
ACCOUNTING	
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PHYSICS, CHEMISTRY, EDUCATION	
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ENGLISH	
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ENGLISH	
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Miss Catherine Henel.....	35 Montrose Avenue
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Miss Laura Hennessey.....	96 Fargo Avenue
ACCOUNTING	
Miss Mary C. Hill.....	446 Prospect Avenue
SOCIAL SCIENCE, LATIN	
Miss Mary A. Hoban.....	472 Connecticut Street
PHILOSOPHY	
Miss Rhoda Hoeffler.....	280 Woodward Avenue
FRENCH, MATHEMATICS	
Miss Gertrude Hogan.....	438 Baynes Street
PHILOSOPHY, LATIN	
Mr. Frank J. Honer.....	251 Krettner Street
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Miss Blanche Horton.....	
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Mrs. Charles B. Horton.....	27 Woodette Place
ENGLISH	
Mr. Charles B. Horton.....	27 Woodette Place
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SPANISH, ITALIAN, EDUCATION	

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Miss Mary Kenny.....	GERMAN	384 Crescent Avenue
Mr. Ellsworth Keppeler.....	ACCOUNTING	60 Carlton Street
Mr. Francis J. Killeen.....	INVESTMENTS	
Miss Anna Klein.....	PHILOSOPHY	862 Glenwood Avenue
Miss Frances Koch.....	HISTORY, PHILOSOPHY, ENGLISH, SPANISH, PHYSICS	17 Crescent Avenue
Mr. William L. Korzelius.....	SPANISH	440 Elk Street
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Miss Catherine L. Lane.....	LATIN, EDUCATION	75 Lancaster Avenue
Mrs. Rosa F. Lasser.....	ENGLISH	409 Bird Avenue

Miss Louise La Tona.....	334 Front Avenue
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Miss Jane Leahy.....	44 Laurel Street
HISTORY	
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Mr. Richard Littlefield.....	21 Lythe Avenue
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Miss Anna McConnell.....	42 Willowlawn Avenue
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Mr. Thomas McDonnell.....	60 Fairfield Avenue
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Mr. Austin McTigue.....	315 Grant Street
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Miss Naomi C. Maeder.....	226 Fox Street
PHYSICS, CHEMISTRY, EDUCATION	
Mr. Walter Malachowski.....	1437 E. Delavan Avenue
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Miss Ernestine Manhardt.....	150 Oakgrove Avenue
FRENCH	
Mr. John F. Manning.....	363 West Avenue
MATHEMATICS	
Mr. Richard B. Manning.....	363 West Avenue
CHEMISTRY	
Miss Irene Mason.....	2075 Main Street
CHEMISTRY, PHYSICS	
Miss Marie Mason.....	2253 Main Street
EDUCATION, LATIN	

Miss Marie Mazurowska.....	668 Northampton Street
	PHILOSOPHY
Mr. Nelson Mercer.....	33 Bristol Street
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Miss Hilda Miller.....	802 Ellicott Street
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Mr. John Morrissey.....	64 Olcott Avenue
	CHEMISTRY, PHILOSOPHY
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Miss Lucy Muller.....	248 Sumner Place
	SPANISH
Miss Isabel Murray.....	445 West Avenue
	FRENCH
Miss Mary E. Murty.....	553 Walden Avenue
	FRENCH, MATHEMATICS, SOCIAL SCIENCE
Miss Marie Nathan.....	845 West Avenue
	EDUCATION, LATIN
Miss Isabel Navagh.....	700 Richmond Avenue
	CHEMISTRY, FRENCH
Miss Mary E. Nehin.....	243 Summit Avenue
	MATHEMATICS
Miss Anna Nelligan.....	215 Brunswick Blvd.
	ITALIAN
Miss Florence Nelligan.....	215 Brunswick Blvd.
	EDUCATION
Miss Margaret Nelligan.....	215 Brunswick Blvd.
	SOCIAL SCIENCE
Sister M. Nepomucena.....	
	ENGLISH, LATIN, MATHEMATICS, PHYSICS
Mrs. Burr H. Nicholls.....	188 Franklin Street
	APOLOGETICS
Miss Mary L. Nolan.....	236 Jersey Street
	FRENCH
Miss Anna H. Noonan.....	30 St. Paul Street
	MATHEMATICS, ENGLISH, LATIN
Miss Catherine Noonan.....	563 Riley Street
	INVESTMENTS
Miss Mary Noonan.....	555 Franklin Street
	FRENCH
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	PHYSICS
Miss Mary C. O'Brien.....	34 Alamo Place
	PHILOSOPHY
Miss Mae V. O'Brien.....	933 Walden Avenue
	PHYSICS
Mr. Joseph Olstowski.....	50 Titus Avenue
	PHYSICS
Miss Alice O'Rourke.....	554 Ellicott Street
	FRENCH
Miss Helen O'Rourke.....	554 Ellicott Street
	SOCIAL SCIENCE
Miss Margaret O'Rourke.....	554 Ellicott Street
	INVESTMENTS
Mr. Nathan A. Palmer.....	98 Wiley Street
	CHEMISTRY, FRENCH
Mr. Henry Panasci.....	162 Dewitt Avenue
	ENGLISH, ITALIAN
Miss Gertrude C. Parker.....	52 Fairchild Avenue
	CHEMISTRY
Miss Catherine Perry.....	9 Lilac Street
	FRENCH, MATHEMATICS, CHEMISTRY
Dr. Russell M. Perry.....	615 Delaware Avenue
	ENGLISH

Mr. Martin G. Phillips.....	159 Russell Avenue
PHILOSOPHY, SPANISH	
Miss Ruth Phillips.....	157 North Pearl Street
PHYSICS, LATIN, HISTORY	
Mr. Henry Poorten.....	51 Rich Street
ACCOUNTING	
Miss Alice E. Pretty.....	439 Hoyt Street
FRENCH, ENGLISH	
Miss Ray Raikin.....	393 Bird Avenue
PHILOSOPHY	
Miss Margaret Reardon.....	104 E. Delavan Avenue
PHILOSOPHY	
Miss Beatrice Redmond.....	298 Jersey Street
ENGLISH, HISTORY	
Miss Josephine Reldy.....	119 College Street
SOCIAL SCIENCE	
Sister M. Ricardo	
LATIN	
Miss Alice R. Rieman.....	36 Seneca Parkside
FRENCH, ENGLISH, PHYSICS	
Miss Adele E. Rlester.....	64 Crescent Avenue
APOLOGETICS, ENGLISH	
Miss Stella Riley.....	5 Days Park
ACCOUNTING	
Sister M. Roberta	
ENGLISH	
Miss Helen Rochford.....	67 E. Utica Street
EDUCATION, LATIN	
Miss Genevieve Rohr.....	443 North Oak Street
ENGLISH, FRENCH	
Mr. Frederick P. Roll.....	180 Stanton Street
BUSINESS LAW, ACCOUNTING	
Mr. George J. Ronan.....	114 Humboldt Parkway
CHEMISTRY	
Sister Rose Gertrude	
EDUCATION, LATIN	
Sister Rose Marie	
FRENCH, LATIN, PHILOSOPHY, EDUCATION	
Mr. Patrick Ryan.....	190 Waverly Street
ACCOUNTING, BUSINESS LAW	
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SPANISH	
Miss Violet E. Saunders.....	66 W. Genesee Street
BANKING	
Miss Agnes Scanlon.....	215 Stevenson Street
FRENCH, ENGLISH, LATIN	
Miss Marion E. Schaad.....	3399 Main Street
SOCIAL SCIENCE, SPANISH	
Miss Edna C. Schank.....	155 Sixteenth Street
SOCIAL SCIENCE	
Miss Cornelia Schilling.....	311 Johnson Street
EDUCATION, PHILOSOPHY	
Mr. George Schneider.....	2367 Niagara Street
PHILOSOPHY	
Miss Agnes Schnieder	68 High Street
PHILOSOPHY, ENGLISH	
Miss Martha Schnieder	68 High Street
ENGLISH, FRENCH	
Sister M. Scholastica	
FRENCH, LATIN	
Miss Beatrice Schrader.....	427 Wohlrs Avenue
PHILOSOPHY, EDUCATION, SOCIAL SCIENCE	
Miss Anna M. Schultz.....	2075 Main Street
PHILOSOPHY	
Miss Olive Schumacher.....	221 Masten Street
LATIN, ITALIAN	

Miss Cella Schutz.....	70	Keystone Street
ACCOUNTING, SOCIAL SCIENCE		
Miss Cornelia Schutz.....	70	Keystone Street
SOCIAL SCIENCE		
Miss Esther Schwartz.....	43	Waverly Street
PHYSICS, MATHEMATICS, FRENCH, ENGLISH		
Miss Anna Scott.....	733	Norfolk Avenue
SPANISH, FRENCH		
Mr. Neil Setter.....	219	Sprenger Street
MATHEMATICS, PHYSICS		
Miss Margaret Shaddock.....	109	Dupont Street
SOCIAL SCIENCE		
Mr. James L. Shea.....	1443	South Park Avenue, Lackawanna, N. Y.
FRENCH, ENGLISH, SOCIAL SCIENCE		
Miss Margaret J. Sheehan.....	425	Porter Avenue
FRENCH		
Miss Iva M. Simpson.....		St. Mary's Seminary
ITALIAN, ENGLISH		
Miss Mary L. Smith.....	661	Richmond Avenue
FRENCH		
Mr. Vincent F. Smith.....	36	Salem Street
ENGLISH		
Mr. Walter Snyder.....	358	Delaware Avenue
BUSINESS LAW		
Mr. Fred J. Soukup.....	654	Sherman Street
PHILOSOPHY, CHEMISTRY		
Miss Mary E. Spain.....	1313	Main Street
FRENCH		
Mr. Herbert J. Sprickman.....	358	Rhode Island Street
BUSINESS LAW		
Miss Margaret M. Stahl.....	114	Guilford Street
ACCOUNTING		
Mr. Sidney J. Stall.....	708	Linwood Avenue
SPANISH, PHILOSOPHY		
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PHILOSOPHY		
Miss Mary Steudle.....	312	E. Delavan Avenue
FRENCH, SPANISH		
Miss Clara Susemihl.....	37	Beverly Road
ACCOUNTING		
Sister M. Teresa		
MATHEMATICS, FRENCH, ENGLISH		
Sister M. Teresina		
MATHEMATICS, EDUCATION, SPANISH		
Sister M. Theophane		
LATIN		
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SOCIAL SCIENCE		
Mr. Joseph H. Tonnies.....	174	Blaine Avenue
BUSINESS LAW		
Mr. T. Leo Towler.....	26	Orchard Place
ACCOUNTING		
Miss Edith Trusler.....	56	Otis Place
ACCOUNTING		
Miss Margaret Turner.....	50	Edson Street
FRENCH		
Miss Helen L. Valentine.....	91	Niagara Street
PHILOSOPHY, HISTORY		
Mr. W. J. Van Valkenburgh.....	71	E. Utica Street
ACCOUNTING		
Miss Bessie Van Wagenen.....	303	North Street
MATHEMATICS, ENGLISH, ITALIAN		
Miss Catherine Van Wagenen.....	303	North Street
PHILOSOPHY		
Sister M. Virginia		
ENGLISH, SPANISH, MATHEMATICS		
Miss Dorothy Wall.....	168	Crescent Avenue
ENGLISH		

Miss Loretta Wallenhurst.....	507 Monroe Street
	EDUCATION
Miss Helen L. Walsh.....	123 Kensington Avenue
	ACCOUNTING
Mr. John Weber.....	195 Stanton Street
	BUSINESS LAW
Mr. George T. Weisbeck.....	273 Humboldt Parkway
	ENGLISH, BUSINESS LAW
Miss Emma Wetter.....	184 Best Street
	FRENCH
Mr. William D. Wischerath.....	871 Prospect Avenue
	CHEMISTRY
Miss Florence Woodward.....	210 Chester Street
	MATHEMATICS
Mr. Charles A. Zenkert.....	506 Delaware Avenue
	CHEMISTRY

Graduate Students	21	
Undergraduate Students:		
Arts Course	115	
Science Course	195	
Special Students	13	
Summer School	483	
College Courses for Teachers.....	325	
		<hr/>
Duplications		1152
		<hr/>
Total		14
		<hr/>
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